Carrière Distalizer
Indications,
Anchorage, Insertion
Procedures with a Full
Esthetic Treatment
Dr. Luis Carrière (Inventor)
DDS, MSD, PhD.
Page 4-6 (Article)

Carrière Distalizer/
Carrière S.L.B. System
Dr. Bruce McFarlane
DMD, BScD, MCID, FRCD(c),
Diplomate ABO
Page 8-9 (Case Report)
Early Treatment of Malocclusion

Learn early treatment techniques that solve Pediatric Malocclusions you see daily in your practice.

Leonard J. Carapezza, D.M.D.

Dr. Leonard Carapezza has over 30 years of clinical experience in pediatric orthodontics, including a successful private practice in Wayland, Massachusetts. Shortly after establishing his practice, he identified the extreme importance of early treatment of malocclusion. Dr. Carapezza’s clinical achievements have brought him recognition as a lecturer in this field.

Dr. Carapezza graduated from Brandeis University; the University of Medicine and Dentistry of New Jersey; then served two years in the United States Naval Dental Corps as a Lieutenant aboard the U.S.S. Wasp. Dr. Carapezza received his certificate from Children’s Hospital in Pediatric Dentistry, during which he served as a Teaching Fellow at the Harvard School of Dental Medicine.

Presently, Dr. Carapezza is an Associate Clinical Professor at Tufts University School of Dental Medicine, teaching early treatment of malocclusion to pedodontic graduate students. He is also an Associate of the New England Medical Center and serves as a Clinical Associate Professor at the University of Tennessee Department of Pediatric Dentistry.

Dr. Carapezza is a contributing editor to the Journal of Clinical Pediatric Dentistry and has published numerous articles on pediatric malocclusion in addition to being a Senior Certified Instructor, and Diplomate of the American Orthodontic Society and Senior Certified Instructor for the International Association of Orthodontics.

He lectures internationally on “Early Treatment of Malocclusion” for general and pediatric dentists, and is the founder and director of the Institute for Growth and Development in Pediatric Dentistry.

**COURSE CONTENT & GOALS**

- Application of the Utility Archwire for Total Orthodontic Control
- Understanding Orthodontic/Orthopedic Control with 2nd generation Nitium Palatal Expander2™ Appliance
- Discussion of lingual arch development, transverse and sagittal to treat all classes of malocclusion which is invisible and requires zero Patient Co-operation
- Self – Ligation Bracket (SLB) Systems
- Distalization Mechanics for Class II Correction to reach a Class I platform

CANADA LECTURE SERIES

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ESTHETICS AND BIOMECHANICS BASED ORTHODONTIC STRATEGIES

Dr. Ravindra Nanda, D.D.S, M.D.S., Ph.D.

Dr. Nanda has been practicing orthodontics for over 30 years, with extensive research in the areas of the cleft lip & palate, orthopedic forces and on long-term growth with orthognathic surgery in adolescents. More recently, his concentration has been on clinical orthodontic trials and application of biomechanics in a busy orthodontic practice. He is an active member of various organizations including the American Association of Orthodontists, European Orthodontic Society, and is a Diplomate of the American Board of Orthodontics.

Dr. Nanda is an author and co-author of three orthodontic books and has published over 100 scientific and clinical articles in major orthodontic journals. His most recent books are Biomechanics and Esthetic Strategies in Clinical Orthodontics, Temporary Ancorage Devices in Orthodontics and Current Therapy in Orthodontics.

**COURSE CONTENT & GOALS**

Self Ligating Brackets…

How to Decrease Treatment Time?

- a. Friction Vs. No Friction
- b. Comparative Evaluation of Different Self Ligating Systems
- c. Speed of Treatment
- d. Case Reports (Typodont Exercise)

Non Extraction Strategies to Correct Class II Malocclusions

- a. A Critical Analysis of Various Treatment Modalities
- b. Pros and Cons of Molar Distalization Techniques
- c. Application of ‘Smart Wires’ and Moments and forces to Correct Class II Malocclusions (Typodont Exercise)
- d. Application of Cantilevers and Palatal Arches to Correct Subdivision Class II Malocclusions
- e. Twin Force Bite Corrector Appliance (Typodont Exercise)

Esthetics Based Management of Open Bites and Occlusal Plane Problems

- a. Treatment of Canted Occlusal Planes
- b. Management of Low Anterior Occlusal Plane or High Gingival Margins (Gummy Smiles)
- c. Strategies to correct Multiple Occlusal Planes in Open Bite Patients
- d. Case Reports

TORONTO November 9 & 10, 2012

Course dates, cities and content are subject to change.
When Clear Aligners Aren’t Enough: What Other Aesthetic Options Are Available?

ONE DAY COURSE

Dr. R. Bruce McFarlane
DMD BS&D MCID FRCD(C)
Diplomate: American Board of Orthodontics

Dr. McFarlane received his dental degree in 1984 from the University of Manitoba where he also served as an Associate Professor of Graduate Orthodontics from 2000-2005. He received his Masters of Clinical Dentistry in Orthodontics in 1992 from the University of Western Ontario. He is a Fellow of the Royal College of Dentists of Canada, and a Diplomate of the American Board of Orthodontics. An Inductee into the Pierre Fauchard Honorary Dental Academy.

Dr. McFarlane maintains a private orthodontic practice in Winnipeg, Canada. He is an internationally renowned speaker, and was a leading pioneer lecturer for a clear aligner orthodontic company. He serves as an orthodontics educator for Ortho Organizers® in Carlsbad, CA and Cerum Ortho Organizers in Canada, and has given numerous lectures for the American and Canadian Associations of Orthodontists. His latest penchant, however, is giving back through “McFarlane Missions,” which provides dental and medical volunteer trips to third world countries.

COURSE CONTENT & GOALS

Case selection for better clear aligner outcomes
The orthodontic movements that are challenging for clear aligners
Overcoming these limitations with
- Fixed devices
- Carrière Philosophy
- Aesthetic Options
Specific devices and auxiliaries for:
- Extrusions
- Rotations
- Antero-Posterior change
- Transverse change
Better outcomes with less attachments, refinements, and stress
Where to turn for further help and mentoring

Canada Lecture Series

HALIFAX February 22, 2013
TORONTO February 23, 2013
CALGARY March 1, 2013
VANCOUVER March 2, 2013
SASKATOON March 3, 2013

BIOMINIMALISM IN ORTHODONTICS

AS IT APPLIES TO SELF LIGATION, 3RD GENERATION WIRES & DISTALIZATION

Dr. Luis Carrière
DDS, MSD, PhD.
- Ph.D. Degree University of Barcelona (Cum Laude) 2006
- DDS degree by the University Complutense of Madrid (UCM)
- MSD degree by the University of Barcelona (UB)
- Inventor of the Carrière Distalizer and the Carrière SLB
- Dr. Carrière has been the invited Professor at the Orthodontic Departments in several Universities of USA, Europe, and Asia

Dr. Carrière is an international lecturer and inventor of the Carrière Distalizer and the Carrière Self-Ligating Bracket Systems. He received his PhD in Odontology “Cum Laude” from the University of Barcelona in 2006, following under and graduate degrees from the Universidad Complutense of Madrid and the University of Barcelona, respectively. Dr. Carrière is also the winner of the prestigious “Joseph E. Johnson Award” from the American Association of Orthodontists. Dr. Carrière is in private practice at the Carrière Orthodontic Centre in Barcelona and is an invited professor at the Orthodontic Departments at several universities.

COURSE CONTENT & GOALS

INTRODUCTION
BIOMINIMALISM
BIOIMETRICS
WORKING CLOSER TO NATURE
INNOVATION IN THE DESIGN OF THE DIFFERENT COMPONENTS FOR A BIOMINIMALIST ORTHODONTIC SYSTEM
CARRIERE SYSTEM – CARRIERE BRACKET & DISTALIZER
RESOLUTION OF ORTHODONTIC SPACE PROBLEMS RELATED TO FRICTION CREATED
- Types of orthodontic displacement according to the variable of Space

CLINICAL CONSIDERATIONS
- New technology wires in the achievement of a biological friendly action
- Archwire sequencing in different stages

CASE REPORTS
CONCLUSIONS

Canada Lecture Series

HALIFAX May 24, 2013
TORONTO May 25, 2013
VANCOUVER May 26, 2013

Course dates, cities and content are subject to change.

For further details and to register contact 1-800-661-9567 or e-mail ce@aurumgroup.com or register online at www.aurumgroup.com
Carrière Distalizer Indications, Anchorage, Insertion Procedures with a Full Esthetic Treatment

INVENTOR OF THE CARRIÈRE SYSTEM
Dr. Luis Carrière DDS, MSD, PhD.

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Primary Indications
The Carrière Distalizer is ideal for treating growing patients and effective for treating adults. Clinicians can usually expect the same amount of distalization and molar rotation in adults as children. Although, as one would expect, treatment time for adults will be longer. On average, adult distalization takes five months; growing children, three months.

Brachyfacial patterns respond best to this treatment followed by mesofacial patterns; dolichofacial types are less responsive. The Carrière Distalizer is indicated in the following types of cases if deemed to warrant nonextraction therapy:

• Class II malocclusions, both division 1 and division 2, symmetrical or asymmetrical.
• Class I and pseudo Class I cases with mesially positioned maxillary molars.
• Class II mixed dentition and adult cases with maxillary dentoalveolar protrusion.
• Phase I treatment of mixed dentition Class II cases with fully erupted maxillary first molars. In these cases, deciduous cuspids must be in a good position to hold the anterior segment of the appliance.

Secondary Indications
The Carrière Distalizer can be used creatively in the treatment of:

• Class I and Class II cases in which four extractions would seem necessary. In such cases, the number of extractions can often be minimized and a more aesthetic facial result achieved.
• Unilateral Class II cases.
• Space recovery for retained maxillary cuspids in Class II cases, unilateral and bilateral.
• Dento-alveolar Class III cases using the Distalizer in the lower arch.
• Cases already treated with 4 extractions which did not achieve a perfect class I occlusion due to a loss of anchorage. In those cases the Distalizer can be used to achieve a solid posterior class I platform.

Possible Sources of Anchorage
To avoid protrusion of the mandibular incisors during activation of the Carrière Distalizer, clinicians must determine an adequate source of anchorage based on each patient’s skeletal and neuromuscular pattern (Figure 1 a-b). A sound diagnosis for the proper selection of anchorage is a fundamental requirement to prevent anchorage loss. There are four primary sources for establishing anchorage that will each be discussed:

• A passive mandibular lingual arch with molar tubes welded buccally and lingu ally on mandibular molar bands;
• A mandibular Essix® appliance with direct-bonded buccal tubes on the mandibular molars;
• Full mandibular fixed appliances with direct-bonded buccal tubes on the mandibular molars;
• Temporary anchorage devices (TADs).

Forming the Passive Lingual Arch
A mandibular lingual arch to sustain Class II elastics traction is one means of preparing anchorage for the Carrière Distalizer and is particularly suited to patients with strong musculature. A .036” lingual arch adapted to the mandibular dental anatomy must run passively from first molar to first molar (second molars if they have erupted.) When second molars are fully erupted, it is advisable to band them (with buccal tubes) in order to obtain the maximum amount of force from elastics and create better anchorage resistance.

The clinician must remain vigilant that the lingual arch does not create protrusion of mandibular anterior. The archwire must remain completely passive in order to disallow reciprocal movement of the mandibular dentition. It must also fit the length of the arch exactly and be perfectly anatomically adapted; otherwise, spaces will emerge between the mandibular incisors, an indication of anchorage loss. Clinicians must monitor and control against rotations and torque changes in the mandibular molars at every appointment. Patient acceptance of the lingual arch is excellent: it is invisible, comfortable, requires minimal patient care and is hygienic.
Mandibular Essix® Appliance

The Essix® appliance (Dentsply Raintree Essix®, Sarasota FL) provides a very good source of anchorage for Class II elastic traction. It unlocks the occlusion, is highly efficient and has become the anchorage method of choice for most clinicians (Figure 4 a-b). It must be worn full time except during meals and is particularly applicable to patients with weak musculature. The recommended material is A+ with .040” (1 mm) thickness.

Essix® Fabrication

1. Bond buccal tubes with hooks onto the buccal surface of the mandibular first or second molar.
2. Cut a window in the thermoformed Essix® appliance to allow the buccal tubes to protrude.
3. To provide maximum traction and maintain the appliance in position:
   a. Ensure it fits properly to the dental arch or
   b. Fabricate the appliance with small composite wedges bonded to the buccal surfaces that fit over the mandibular bicuspids.

Full Bonded Appliance in the Mandibular Arch

For patients who present with a severe curve of Spee or mild crowding in the mandibular arch, it is advisable to bond brackets to the mandibular dentition to prepare anchorage for supporting Class II traction. After leveling the case with round wires, advance to a .016 x .025 dimension archwire and then to a .019 x .025 Bio-Kinetix™ archwire before attaching the Class II elastics.

Temporary Skeletal Anchorage (Temporary Anchorage Devices or TADs)

A variety of temporary anchorage devices (TADs), such as miniimplants, miniplates and miniscrews, are designed with heads that offer mechanisms to receive the insertion of elastics for anchorage maintenance. The suggested TAD placement in the mandibular arch is between the first and second molar where there is adequate dense cortical bone to hold the Class II elastic traction. The recommended TAD length for this position is 8 mm.

Sizing the Appliance

Measure for the appropriate size distalizer by using calipers or the disposable Carriere Distalizer Ruler provided with the appliance. There are 23 sizes available to accommodate the majority of case requirements for bonding from cuspid or first bicuspid to first molar.

Taking the Measurement

1. In cases with accessible cuspids, take the measurement from the buccal surface midpoint of the maxillary first molar to the midpoint of the maxillary cuspid crown.
2. In cases with an inaccessible high cuspid when the second maxillary molars are present, take the measurement from the buccal surface midpoint of the first molar to the buccal surface midpoint of the first bicuspid. The appliance can then be bonded to these teeth so that the posterior teeth can be distalized to provide space for the blocked-out cuspid.
3. Use the measurement to choose the appropriate size appliance. When the measurement is between two sizes (e.g., between 24 mm and 25 mm), select the appliance size based on the amount of rotation desired:
   a. For more rotation, select the smaller size.
   b. For less rotation, select the larger size.

Appliance Selection

Right Distalizer and/or Left Distalizer

Prepping the Teeth for Bonding

1. Isolate the area being bonded.
2. Clean the teeth being bonded with prophylaxis paste (Figure 5).
3. Rinse the teeth thoroughly with water (Figure 6).
4. Dry the teeth with air (Figure 7).
5. Etch the surfaces of the teeth being bonded appropriate to the adhesive selected (Figure 8).
6. Rinse the teeth thoroughly with water (Figure 9).
7. Dry the etched teeth with a brief air burst. Ensure that the entire isolated area is dry.
8. Prime the teeth being bonded with a uniform coating of primer/sealant (Figure 10).

2. Occlusal view of an ideal lingual archwire shaped and placed passively over a dental model (Figure 3)

Figure 3

Figure 4 a-b. The Essix® appliance (a-before and b-after distalizing treatment) has become the most popular choice for anchorage with the Carriere Distalizer.

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8. Prime the teeth being bonded with a uniform coating of primer/sealant (Figure 10).
Bonding the Appliance cont’d

1. **Adhesive Application**
   a. Using a locking hemostat, forceps or tweezers, grasp the distalizer by the arm and coat both pads of the appliance with a small amount of light-curing adhesive, covering them completely (Figure 11).

2. **Placement**
   a. Use the instrument to position the appliance onto the appropriate teeth, placing the posterior pad first and then the anterior pad.
   b. There is a vertical line engraved on the posterior pad to be used as a reference in aligning the pad coincident with the longitudinal axis of the molar. Position the posterior pad in the center of the buccal surface of the molar. In cases of exaggerated mesial molar rotations, the arm of the distalizer can open laterally up to 45°, easing placement.
   c. Position the anterior pad on the mesial third of the vestibular surface of the crown of the cuspid or first bicuspid (not on the midline).

3. **Alignment**
   a. Using the placement instrument, align the pads on the tooth surfaces (Figure 12).
   b. Generally, little if any adjustment to the curvature of the appliance arm is necessary.
   c. Using the placement instrument, remove excess adhesive from the tooth surface while maintaining the appliance alignment.

4. **Light Curing**
   a. Fully light cure the appliance pads, beginning with the molar, then the cuspid or bicuspid (Figure 13).

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**Figure 12**

**Figure 13**

**Figure 14.** If the distalizer requires adjustment prior to placement, place it on a solid, flat surface and use gentle finger pressure on the middle of the arm.

If the distalizer requires adjustment prior to placement, place it on a solid, flat surface and use gentle finger pressure on the middle of the arm (Figure 14). Do not use an instrument to adjust the bar or the pad. Avoid making repeated adjustments, bending and straightening the bar. Repeated bending will fatigue the appliance and may cause it to break. Avoid trying the appliance on the patient’s teeth prior to bonding it; this action can contaminate the bonding pads with saliva.

**ELASTICS TRACTION**

**Alternative I—For Convergent Patients**

**Force 1/First Month:**
   - **CLASS II Elastics:** 6 oz., ¼”, full time wear

**Force 2 /After the First Month:**
   - **CLASS II Elastics:** 8 oz., 3/16”, full time wear

**Alternative II—For Divergent Patients**

**Force 1 Daytime Wear:**
   - **CLASS II Elastics:** 6 oz., ¼”

**Force 2 Nighttime Wear:**
   - **CLASS II Elastics:** 8 oz., 3/16”

Instruct patients to wear elastics 24 hours a day except when eating because of the vertical force vector that opening the mouth while chewing produces. A predominantly vertical force vector may result in a mild extrusion of the cuspids during distalization. Night-time wear can compensate for this phenomenon because it produces a more horizontal vector of traction but will prolong the distalization period. Patients should change their elastics after each time they eat. Appointment checks at 6-week intervals should take only a few minutes. Each is used to observe treatment progress, explain the progress to the patient and praise and/or encourage compliance.

There are seldom emergencies associated with the Carrière Distalizer because if one end of it becomes debonded, the patient will generally play with the appliance until the other end debonds. To preclude debonding, ensure that the appliance goes immediately from its packaging to placement. Do not determine the size of the distalizer by placing it in the mouth. Doing so contaminates the retention pad and compromises bond strength, which can cause debonding.

**Full Esthetic Treatment**

Carrière Distalizer Correction Dovetails Ideally with Invisalign® for Finishing Treatment

The Carrière Distalizer is the perfect solution for patients who want Invisalign® (Align Technologies Inc., San Jose, CA) or other clear aligner treatment but display a Class II malocclusion. The small profile of the Carrière Distalizer will satisfy most patients who are concerned about esthetics and after using it for the sagittal correction, the clinician is free to utilize any fixed appliance system—including Invisalign®—to complete treatment. Teenagers are predisposed to wearing Invisalign® and easily understand how the Carrière Distalizer can jump start Class II treatment to provide the indiscernible orthodontic correction they seek.

**Transitioning from the Carrière Distalizer to Invisalign®**

After removing the Carrière Distalizer and Class II elastics, transition to an Essix® appliance in the maxillary arch until the aligners arrive. If you used a lingual arch or TADs for anchorage, transition to an Essix® appliance for the mandibular arch as well. If you used an Essix® appliance for anchorage in the mandibular arch, maintain it until the aligners arrive.

**Taking Impressions for Invisalign® Finishing Treatment**

Clinicians take impressions for Invisalign® and the Essix® appliances by using VPS material for both or a VPS material for the aligners and alginate replacement for the Essix®. When using VPS material for both a high quality material is recommended (e.g., for the tray material: Kettenbach Panasil ® Putty or Panasil® Tray Heavy, for the wash material: Kettenbach Panasil® Initial contact light or x-light). For the Essix® fabrication (and/or for models) clinicians also use a VPS alginate replacement (e.g. Kettenbach Silginat®).

**Fixed Appliances for Finishing Treatment**

**Transitioning to Fixed Appliances for Finishing Treatment**

When transitioning from the Carrière Distalizer to fixed appliances, it is advisable to have two bonding appointments. Bond only the maxillary arch at the first appointment. Run the round wire first molar to first molar and onto the lingual archwire or Essix® appliance in the mandibular arch until the next appointment (for as much as 10 weeks). At the next appointment, you can then remove the lingual arch or Essix® appliance and bond the mandibular arch. Of course, if you used fixed appliances for mandibular anchorage, you simply transition to fixed appliances in the maxillary arch. After removing the distalizer, it is important to ligate the distalized teeth under the archwire using a .012” stainless steel ligature wire tied in a figure 8 from the maxillary cuspsids to the maxillary first molars, maintaining the consolidation until the end of treatment.
THE CARRIÈRE® CLEAR DISTALIZER™
Aesthetic Class II Correction Appliance

Class II Correction Has Never Been More Clear

Stainless Steel Posterior Pad
direct bonds to the maxillary 1st molar, and houses an articulating aesthetic ball in a socket that fosters free yet controlled movement that allows the molar to travel directly to the desired position after derotating and uprighting it.

Flexible Arm
connects the anterior and posterior pads and curves over the two maxillary bicuspids, providing stability to the cuspid while directing movement longitudinally.

Fixed Anterior Pad
direct bonds to the maxillary cuspid (or 1st bicuspid), fostering bodily distal movement of the cuspid along the alveolar ridge. Its hook offers an attachment point for Class II traction.

Proprietary Fabrication Process
Medical grade copolymer affords proven strength, performance, and is resistant to staining and wear for uncompromised beauty and aesthetics.

THE CARRIÈRE® DISTALIZER™ (Metal)
Class II Correction Appliance shifting the way you think about orthodontics.

A huge move in the right direction for orthodontics!
To limit extractions and to turn difficult Class II cases into simpler Class I cases is a dream come true for you and your patients. With its sleek, aesthetic and non-invasive design, the Carrière® Distalizer™ Class II Correction Appliance provides greater comfort and shortens treatment time by up to four months. Delivering a natural, gentle and uniform force for distal molar movement with controlled rotation and tipping correction before brackets or other appliances are placed, the Carrière® Distalizer™ Appliance solves complex problems almost effortlessly.

Molar Pad Ball
Articulates in the socket.

Flexible Arm
connects the anterior and posterior pads and curves over the two maxillary bicuspids, providing stability to the cuspid while directing movement longitudinally.

Stiff Arm
Runs posteriorly over the two upper premolars in a slight curve. Maintains exact space between pre-molars during distalization.

Hooks on Pad
For attachment of the Class II elastics (¼ inch, 6 ounces and/or 3/16 inch, 8 ounces).

Fixed Cuspid Pad
Allows the distal movement of the cuspid along the alveolar ridge.

Sleek and Non-Invasive
Design delivers greater comfort.

Loose but Controlled Forces
The ball-and-socket joint provides maximum freedom of movement, but also has built-in stops that allow the molars to move directly to their desired position while preventing any unwanted over-rotation or tipping.

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Class II correction in our office is happening at a different time, and at a faster rate these days: thanks to the Carrière Philosophy. The combination of the Carrière Distalizer, followed by the Carrière Self Ligating Bracket System (SLB) has allowed us to leverage the three major advantages that Dr. Luis Carrière has introduced to the orthodontic world:

- Predictable, fast Class II correction in a straight line before the braces go on.
- Biominimalism: with minimal disruption of periodontal tissues due to low force and friction-reduced mechanics.
- The efficiencies of thermally-activated superelastic archwires in a passive self-ligating bracket system.

The results have been faster, more comfortable and more efficient correction while seeing patients less-often, and while requiring less compliance than some other Class II correction systems.

The Distalizers are placed (Figures 5 and 6,) and Force 1 Elastics (6 oz 1/4inch) elastics were utilized by the patient 24/7 for five weeks, followed by Force 2 Elastics (8 oz 3/16 inch) for another five weeks. At 10 weeks, the distalizers had effectively created a Class I platform via its major effects (Figures 7 and 8:)

- Upper molar uprighting.
- Upper molar bodily distalization
- Upper molar derotation around the palatal root
- Dentoalveolar effects on the lower incisors: proclination and relative intrusion.

There is also a retraction effect on the upper incisors, due to trans-septal fiber connections with the upper cuspids.
At the 16 X 25 Biokinetix stage, crimpable hooks are placed between the laterals and cuspids, and the spaces that had been created by the Distalizer are closed with four units of powerchain by passing the cuspid bracket, and engaging the premolar brackets (Figures 11 and 12.) At the same time, Class II elastics are run off the crimped hooks to the lower first molar.

The case finished nicely in a total of 13.5 months: with the patient seen nine times once underway (Figures 13-16.) The cephalometric superimpositions (Figure 17) reveal that the correction occurred through upper molar and incisor distalization, lower molar eruption and mesialization, and lower incisor intrusion and proclination.

The keys to success with Carrière’s systems are that:

• The Class II correction happens fast, in a straight line before the braces go on at a time when good compliance with the elastics can be counted on.

After 10 weeks with the distalizers, they are removed, and the Carrière SLB’s are bonded (Figures 9 and 10.) It is important in the early stages of fixed orthodontics that the Distalizer’s effects are protected, but also that the SLB is allowed to be free of encumbrances to its friction-reduced feature. This is accomplished with steel ligature weaves under the archwire from the upper cuspid to the upper molar—thus creating a four-tooth anchor unit on each side.

The archwire sequence and intervals for this case were as follows:

• .014 Biokinetix thermally-activated superelastic wire (DLX Form:) 10 weeks
• .014 X .025 Biokinetix: 8 weeks
• .016 X .025 Biokinetix; 8 weeks
• .019 X .025 Biokinetix: 8 weeks
• .019 X .025 CNA: 10 weeks

The combination of the passive SLB’s and the thermal archwires allow for low force, low-friction mechanics in a biomimimalist manner.

Dr. Luis Carrière has added a new dimension to Class II correction in our office:, efficient, and well-tolerated by our busy children and adults—and we think that’s pretty cool.

Dr. R. Bruce McFarlane is a Certified Specialist in Orthodontics, a Fellow of the Royal College of Dentists of Canada, and a Diplomate of the American Board of Orthodontists. He has a large Orthodontic practice in Winnipeg Manitoba Canada, and lectures extensively for the Canadian and American Association of Orthodontists, Ortho Organizers in the US and Cerum Ortho Organizers in Canada. He is a Member of Mensa Canada and has been recently invited to join The Pierre Fauchard Honorary Dental Academy. Dr. McFarlane also finds time for philanthropy: in particular: the “McFarlane Missions:" Dental/Medical volunteer missions to Third World Countries: most recently Haiti. He may be contacted through his mentoring site: www.icando.ca
# D-LX™ Arch Form

## Single Pack Archwire System

Expand Treatment Options While Broadening Smiles

### D-LX Arch Form — Compare to Ormco’s Damon® Arch for a Full Self-Ligating System

<table>
<thead>
<tr>
<th>Wire Type</th>
<th>Catalog Number</th>
<th>Ortho Organizers Archwire</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Phase 1</strong></td>
<td>10 weeks</td>
<td>10 - 20 weeks</td>
</tr>
<tr>
<td>Bio-Kinetix Plus Archwire</td>
<td>103-100</td>
<td>.013 Bio-Kinetix Plus D-LX Archwire (10 per box)</td>
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<td>103-114</td>
<td>.017 x .025 Nitanium® Archwire (10 per box)</td>
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<tr>
<td><strong>Phase 2</strong></td>
<td>Option A) If needed use torqued Archwire for division 2 cases where intrusion and additional torque are indicated</td>
<td>Option B) Or if needed use RCS Archwire when only intrusion is indicated for deep bite, division 2 cases</td>
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<tr>
<td>Bio-Kinetix Plus Archwire</td>
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<tr>
<td></td>
<td>103-123</td>
<td>.021 x .025 Bio-Kinetix Plus D-LX Archwire</td>
</tr>
</tbody>
</table>

**Objective:** Initiate tooth movement, begin aligning/levelling teeth, correct rotation issues, start to develop arch.

**Recommended Archwire:** 014 Bio-Kinetix® Plus™ D-LX Archwire (Upper/Lower)

**Options:** Cases with severe crowding - use a .016 Bio-Kinetix Plus Archwire before moving to Phase 2.

---

**Objective:** Finish aligning/levelling; resolve remaining rotation issues; begin torque control, angulations and space consolidations in the anterior; and continue developing arch.

**Recommended Archwire:** .016 x .025 Bio-Kinetix Plus D-LX Archwire (Upper/Lower) – place in well prepared arches.

**Option:** Duration 4 – 6 weeks (Upper only):  .017 x .025 and .019 x .025 Nitanium® Archwires - 20° torque archwires for division 2 cases, where intrusion and additional torque are indicated

**Option:** .017 x .025 and .019 x .025 Nitanium Super Elastic RCS Archwires - for division 2 cases, where only intrusion is indicated.

---

**Objective:** Major mechanics to finish torque control; consolidate space closure in posterior; adjust buccal/lingual discrepancies and anteroposterior dental correction; and establish patient specific arch form.

**Recommended Archwire:** .019 x .025 Stainless Steel D-LX Archwires

**Options:** .019 x .025 Stainless Steel D-LX Archwire when more play is desired. Use crimpable ball hooks for retraction.

---

**Objective:** Finishing the case, including minimal adjustments and final detailing.

**Recommended Archwire:** .019 x .025 Stainless Steel D-LX Archwire

**Options:** .019 x .025 CNA® Beta III D-LX Archwire if moderate bends and torque are needed.
THE CARRIÈRE® SELF-LIGATING BRACKET SYSTEM
Shifting the way you think about orthodontics.

Takes clinical performance and patient outcomes to a new level.

Carrière System

Dual-Lock Fasteners in the Bracket Face
Cap opens to the incisal/occlusal edge allowing the cap to always stay in the closed position (e.g. during the mastication movements).

Smooth Labial Surface of the Locking Mechanism
Contoured edges and smooth surfaces provide enhanced patient comfort.

Simple Locking Mechanism
Opens with the Wire Director and Opener Tool and closes securely with finger.

Hooks Available on 3s, 4s and 5s
For maximum versatility.

Smooth Labial Surface of the Locking Mechanism
Contoured edges and smooth surfaces provide enhanced patient comfort.

Simple Locking Mechanism
Opens with the Wire Director and Opener Tool and closes securely with finger.

Hooks Available on 3s, 4s and 5s
For maximum versatility.

Beveled Edges
Mesial and distal edges of the slot have been carefully rounded to reduce friction and enhance sliding mechanics.

Tie Wings
For chain elastics or conventional ligation (if necessary).

Step 01 | Opening Locking Mechanism
Place tip of Wire Director and Opener (or instrument such as an explorer) in opening and apply light incisal/occlusal pressure.

Step 02 | The Carrière® with the LX Difference:
Micro-etched surface for increased bond strength. Inset is 100x SEM.

Step 03 | Seating of the Archwire
Use the forked end of a Wire Director and Opener to help seat wire. Fully engage wire before closing the locking mechanism.

Carrière System.com
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Phone: 1.800.661.9567 | Fax: 1.800.361.5088 | Email: cerumsupplies@aurumgroup.com | www.aurumgroup.com
Discover the Precision, Comfort, and Control of the MIM-Manufactured Maestro™ Bracket

Small footprint is less bulky than conventional twin brackets, minimizing the look and feel

Lowest possible profile reduces occlusal interferences

Smooth rounded surfaces ensure patient comfort

Contoured archwire slot edges mesial-distal to reduce friction

In/Outs Built-In, Not Machined for precision and consistency

The Maestro™ Bracket Offers Multiple Visual Cues to Enhance Precise Bracket Placement

The geometries of the Maestro Bracket are specifically designed to provide signposts which assist you in positioning brackets in their ideal location.

Rhomboïd-shaped brackets and pads align with tooth edges

Constant occluso-gingival heights across the system foster placement repeatability

Vertical aspects follow long axis of the tooth

Horizontal aspects run parallel to occlusal plane

Long axis scribe line not only runs the entire length of the pad, but also the bracket for an accurate placement cue

Specific bracket geometries, such as in this lower lateral bracket, further guide the eye for placement accuracy

Maestro™ A Complete System

Maestro Buccal Tubes complete the appliance system. The 80 gauge mesh pad, compound contoured base, and defined buccal indent, provides the practitioner with the precise control needed throughout all phases of treatment. The large funneled entrance, side-grip areas, and color-coding make for easier identification, placement, positioning, plus wire insertion. The patient will have one of the most comfortable experiences with its smooth shape, low profile, rounded edges, and lowered hook. The Maestro Buccal Tube orchestrates all components of the system seamlessly, providing reduced chair time and increased satisfaction for both practitioner and patient.

Finely Tuned Design for Detailing Finely Tuned Finishes

Anatomically contoured base and pad

Deep tie-wing undercuts

Optional gingivally offset brackets, on large bonding bases

80 gauge micro-etched bondable mesh pad

Torque-in-base

Optimized mesial-distal width

Maestro Buccal Tubes—bondable and weldable—are engineered to provide a complete and seamless appliance system

Funneled slot opening makes wire engagement easier without adding bulk

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NeoLucent® Plus™ Ceramic Bracket System

The NeoLucent Plus Low-Profile Ceramic Bracket System delivers superb aesthetics by blending with the natural tooth tone for a virtually invisible appearance. With improved performance due to a Crunch Coat Base, more anatomically contoured base radii, and improved materials for a smoother finish and color consistency, NeoLucent Plus Ceramic Brackets provide the definitive performance you demand.

Patient Satisfaction

Invisible Appearance – Crafted to the highest aesthetic standards
Translucent, natural appearance from 99.9% pure Polycrystalline Alumina
Stain resistant throughout treatment
Comfort – Designed with your patient’s comfort in mind
Low profile
Smooth, polished surface
Rounded corner

Clinical Performance

Accurate placement achieved with an easily removable color-coded ID mark
Strong bonding and predictable debonding with a Crunch COAT Base
Superior Sliding Mechanics via a precision-cut archwire slot
Non-allergenic for sensitive patients as brackets do not contain nickel, chromium or other metals
Easy Ligation with ample tie wing clearance
Routine Protocol with no special instruments or adhesives required

What’s in the Plus? Crunch COAT Base

Base surface is proprietary to Ortho Organizers

Bond Strength Comparable to Mesh Pad
Fine alumina particles bonded to the bracket base - provide a large surface area for adhesive bonding
Consistent Debonding
Because debonding occurs near the Crunch COAT adhesive interface, there is minimal distress to the enamel surface

Compatible IN/OUT with Maestro Low-Profile Bracket System

For aesthetic anterior and metal posterior bracketing

Maestro Bracket
NeoLucent Plus Bracket

Finishing Touches

To ensure excellence in every one of your cases, we offer an extensive line of aesthetic auxiliaries compatible with the NeoLucent Plus Ceramic Bracket System.

Aesthetic Archwire Options

Tooth Tone Plastic-Coated Archwires
Stain and crack resistant this archwire features a tooth-colored coating that blends with natural dentition and reduces friction.
White Micro-Coated Bio-Kinetix™ Thermally Activated Nitanium® Archwires
The labial side of the wire is coated in bright white to enhance aesthetics, without affecting wire dimensions.
Pearl Tone® Preformed Ligature Wires
Available in a white/pearl hue, this archwire features a super smooth nonstick coating.

Aesthetic Elastomeric Options

Safe-T-Tie™ Ligatures
Ligatures for individual patient use, avoiding cross-contamination. We offer an array of color options that blend with the bracket and dentition. Available in clear, white, tooth tone, natural glow and smoke.
Chain Elastic
Made from super-elastic long lasting material, these ligatures deliver gentle, continuous force for more predictable tooth movement. Multiple colors to choose from: clear, white, tooth tone, natural glow and smoke.
Light Force Chain Elastic
Delivers a 20% lighter force than our regular chain making it an excellent choice for low force treatment mechanics. Available in clear.

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THE ANDREWS² STRAIGHT-WIRE APPLIANCE

Building upon the Straight-Wire Appliance, the Andrews Foundation has developed a modern appliance system which has been through 20 years of research and development. Ortho Organizers® is the proud, exclusive manufacturer and distributor of the Andrews² Appliance. The Company has worked closely with Drs. Larry and Will Andrews to develop the Andrews products to the exact, high-quality specifications every orthodontist requires.

- **De-ligation Saddles** for easy removal of elastic ligatures
- **Occluso-Gingivally Centered Slot** for accurate slot targeting
- **Rounded Tie-Wing Corners** for patient comfort
- **Vertical Scribe** to align with crown's facial axis
- **Access Bevels** for steel ligature cutters
- **Instrument Channel** for bracket positioning control
- **Access Bevels** for steel ligature cutters
- **Maximum Tie-Wing Undercuts** for ease of ligation and space for multiple auxiliaries
- **Contoured Archwire Slot Edges Mesial-Distal Stem 90° to Slot** to align auxiliary rotation devices with archwire
- **Wider Pad on Lower 5’s** offers greater bond strength and a weld option
- **Rounded Post** for patient comfort (optional)
- **Color ID Dot** for ease of bracket identification
- **80-Gauge Micro-Etched Bondable Mesh Pad** offers proven bond adhesion
- **Compound-Contoured Base and Pad** for optimal crown fit

Orthodontics Science Real-
INCREASED EFFICIENCY

Titanium® Molar Rotator 2™ Kit
This Rotator fits easily into .036 lingual sheaths for immediate activation. Efficiently corrects molar rotations.

PROVEN SUCCESS!

Titanium® Palatal Expander2™
This appliance is pre-programmed to provide arch expansion, rotational control and uprighting through continuous direct vector forces. The thermally-activated expander starts to work immediately after reaching mouth temperature.

Virtually Invisible Arch Development Appliances

TransForce2 Transverse Arch Developer
The Transverse Appliance has an expansion module to increase the inter-canine width (expands at the cuspids) and may be used in the upper or lower arch when expansion is required to accommodate crowding in the labial segments, or to correct arch width in constricted arches.

TransForce2 Sagittal Arch Developer
The Sagittal Appliance is specifically designed for anterior arch development (creates space by advancing the 3x3 labially) and is often indicated for simultaneous use in both arches. The appliance operates on the slide principle and may be used unilaterally or bilaterally to extend arch length.

CATALOGUE NUMBER | COLOUR CODE | TRANSVERSE SIZE: INTER-CANINE FULLY EXTENDED | TRANSVERSE SIZE: INTER-CANINE FULLY COMPRESSED | MAXIMUM AMOUNT OF EXPANSION
--- | --- | --- | --- | ---
424-500 | | | | Transverse Kit
424-526 | Red | 26 mm | 18mm | 8mm
424-528 | Green | 28 mm | 20 mm | 8 mm
424-530 | Purple | 30 mm | 22 mm | 8 mm
424-532 | Pink | 32 mm | 24 mm | 8 mm

Transverse Arch Development Planner 424-500T

CATALOGUE NUMBER | COLOUR CODE | SAGITAL SIZE: ANTERIOR-POSTERIOR FULLY EXPANDED | SAGITAL SIZE: ANTERIOR-POSTERIOR FULLY COMPRESSED | MAXIMUM AMOUNT OF EXPANSION
--- | --- | --- | --- | ---
424-700 | Green | 28 mm | 24 mm | 4 mm
424-728 | Purple | 30 mm | 26 mm | 4 mm
424-730 | Pink | 32 mm | 28 mm | 4 mm
424-732 | Blue | 34 mm | 30 mm | 4 mm
424-734 | Black | 36 mm | 30 mm | 4 mm
424-736 | Yellow | 38 mm | 32 mm | 4 mm
424-738 | White | 40 mm | 34 mm | 6 mm

Sagital Arch Development Planner 424-700T

Molar Rotator 2™ Kit
101-780
Kit contains 1 Rotator of each of the following 10 sizes: 26mm, 28mm, 30mm, 32mm, 34mm, 36mm, 38mm, 40mm, 42mm, 44mm; Instructions and Acrylic Storage Case.

Mid-Range Kit
101-760M
Kit contains: 1 Expander of each of the following 5 sizes: 32mm, 34mm, 36mm, 38mm, and 40mm; Instruction Manual and Acrylic Storage Rack.

Full-Range Kit
101-760
Kit contains: 1 Expander of each of the following 10 sizes: 26mm, 28mm, 30mm, 32mm, 34mm, 36mm, 38mm, 40mm, 42mm and 44mm; Instruction Manual and Acrylic Storage Rack.

WITH TITANIUM CLAMPS AND SCREWS!

Titanium Twin Force®
Double Lock Version
Small 424-216Ti
Standard 424-215Ti
High-Quality Grade Titanium Clamps and Screws
Reduces Breakage and Slippage
Square Screw Versus Hex Screw
Allows Tightening of Clamp Without Stripping or Loosening of Screw
Laser Welding of All Components
Insures That All Working Components Function as a Single Unit – Minimizing Separation
Precision Machining for Precise Accuracy and Comfort
The “Right Size” Components Provide a Secure Attachment Every Time and Enhanced Patient Comfort

Ask for your Free Copies of These Articles!
“Class II Correction” Drs. Rothenberg, Campbell and Nanda. • 999-197

CATALOGUE NUMBER | COLOUR CODE | CATALOGUE NUMBER | COLOUR CODE
--- | --- | --- | ---
424-500 | | 424-700 | Sagital Kit
424-728 | Green | 424-728 | Green
424-730 | Purple | 424-730 | Purple
424-732 | Pink | 424-732 | Pink
424-734 | Blue | 424-734 | Blue
424-736 | Black | 424-736 | Black
424-738 | Yellow | 424-738 | Yellow
424-730 | White | 424-730 | White

Transverse Arch Development Planner 424-500T

Sagital Arch Development Planner 424-700T
**Bio-Kinetix™ Plus™ Thermally Activated Nitanium® Archwires**

**Easy ligation with lower loading forces compared to Super Elastic Nitanium Archwires**

The Bio-Kinetix Plus Archwire is ideal for early to mid-stage treatment with moderate to severe crowding. This wire is best suited for the initial stage because it is easy to engage at lower temperatures. The wire then reacts to the heat in a patient’s mouth and exerts a light, continuous force as it returns to its original shape. Made from an advanced nickel titanium alloy that exhibits improved resiliency, resulting in wires that are measurably more resistant to permanent set (deformation). The advanced thermal properties display a narrower transformation band from martensite to austenite which gives the archwires a “crisp” response as they move between their “soft” state and “stiff” state.

### Bio-Kinetix™ Plus™ Thermally Activated Nitanium® Archwires

<table>
<thead>
<tr>
<th>Wire Size (inches)</th>
<th>Round Wires</th>
<th>Square &amp; Rectangle Wires</th>
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**3-Point Bend Test done in accordance with ISO15841:2006(E)**

- Blue bar indicates tooth-moving force measured at 1.5mm deflection.
- Purple bar (darker extension) indicates ligation force at maximum deflection.

---

**Smart Archwires**

Phone: 1.800.661.9567 | Fax: 1.800.361.5088 | Email: cerumsupplies@aurumgroup.com | www.aurumgroup.com
Dimpled Super-Elastic Nitielium ® Archwires

Dimpled “Notch” reduces archwire drift and slide-out!

The search wires feature a permanent “dimpled” center reference mark that will not rub-off like inked marks, and is easy to see in normal office light.

CNA ™ Beta III Preformed Archwires

Developed in consultation with Dr. Ravi Nanda

We went a step beyond TMA.

Here are the three reasons clinicians are switching from TMA to CNA:

• CNA does not break as easily as TMA.
• CNA has a smooth, high polish finish for much less friction.
• CNA maintains loops much better than TMA.

Variable Force 3™ Archwires

Three Distinct Forces, All In One Archwire

The Variable Force 3 Archwire is a heat activated, multi-force, nickel titanium archwire with three distinct force regions. The Variable Force 3 Archwire places the correct force to the appropriate region (anterior, bicuspid and posterior) of the arch to quickly torque, level and align, without sacrificing patient comfort. It could take multiple archwire changes with any other archwire to achieve the same level and alignment results.

SMOOTH HIGH POLISH FINISH!

CNA ™ Beta III Pro Form Beta Titanium Alloys Archwires

(Improved TMA *Alternative)

Developed in consultation with Dr. Ravi Nanda

We went a step beyond TMA. Here are three reasons clinicians are switching from TMA to CNA:

• CNA does not break as easily as TMA.
• CNA has a smooth, high polish finish for much less friction.
• CNA maintains loops much better than TMA.

PERMANENT LASER MARKED BLACK MIDLINES

Nitielium® Super Elastic Preformed Archwires

Archwires deliver a gentle, constant force throughout treatment for efficient tooth movement with fewer wire changes and minimal discomfort to patients.

Dimpled Super-Elastic Nitielium® Archwires

Dimpled “Notch” reduces archwire drift and slide-out!

These archwires feature a permanent “dimpled” center reference mark that will not rub-off like inked marks, and is easy to see in normal office light.

Andrews² Archwires

Oval Arch Form III™ Archwires

More Narrow and Oval in shape.

Offers variety in natural arch form archwire. Allows the doctor to select archwires that more closely match each patient’s needs. Available in most popular sizes.

Available in S.S., Nitielium, CNA ™ & Bio-Kinetix™

Andrews² Archwires are great for use with the Andrews² Appliance.

Phone: 1.800.661.9567 | Fax: 1.800.361.5088 | Email: cerumsupplies@aurumgroup.com | www.aurumgroup.com
### LIGATURE TIES

**SAFE-T-TIES™**  
New Metallic Colours!  
.120” Individual Patient Ligatures  
(720/Pack)

**Glow-In-The-Dark!**  
(30 Sticks per pack)

**Mini-O-Tie™**  
Ligatures  
.120” diameter size (Latex-Free)

- 10 modules per stick, 50 ligature sticks per pack
- Available in an array of 34 colours
- With 10 ligatures per stick, there is little waste and no cross contamination
- Easily remove each ring by utilizing the grip and ergonomic shape

**Chain Elastic**  
15-foot spool.  
Continuous  
Short  
Long

---

**Mini-O-Tie Ligature Kits (Latex-Free)**

- **New Larger Size!**
- **Single Separators Radio Opaque**
- **Elastomerics**

---

**Phone:** 1.800.661.9567 | **Fax:** 1.800.361.5088 | **Email:** cerumsupplies@aurumgroup.com | **Website:** www.aurumgroup.com

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**NEW LARGER SIZE!**

**Single Separators Radio Opaque**

- 1000 per pack  
- **400-355**

**Mini-O-Tie Ligature Kits (Latex-Free)**

- 1000 per pack  
- **400-355L**

---

**Offers cannot be used in conjunction with other offerings.**

---

**This reference colour chart may be used in your office for easy reordering of your favourite colours. Catalogue No. 400-Chart**
Smile Safari™
Orthodontic Elastics
100 Elastics per Pack and 50 Packs per Box

Smile Safari™ Intraoral Elastics Chart

<table>
<thead>
<tr>
<th>Light - 2.5 oz.</th>
<th>Medium - 4.5 oz.</th>
<th>Heavy - 6.5 oz.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/8” Giraffe</td>
<td>1/8” Chimpanzee</td>
<td>1/8” Python</td>
</tr>
<tr>
<td>3/16” Toucan</td>
<td>3/16” Zebra</td>
<td>3/16” Elephant</td>
</tr>
<tr>
<td>1/4” Gazelle</td>
<td>1/4” Lion</td>
<td>1/4” Rhino</td>
</tr>
<tr>
<td>5/16” Leopard</td>
<td>5/16” Gorilla</td>
<td>5/16” Hippo</td>
</tr>
<tr>
<td>3/8” Vulture</td>
<td>3/8” Warthog</td>
<td>3/8” Crocodile</td>
</tr>
</tbody>
</table>

Safe-T-Tie™ Dispenser
Dispenser filled with 270 assorted Safe-T-Ties™, and Colour Chart.
Full Kit 402-016
Empty 402-015

Combo Chain and Safe-T-Tie™ Dispenser
Filled with 12 Matching Colours of Safe-T-Ties™ and Chain Elastic
Holds 12 separated spaces for Safe-T-Ties™ and a bar to accommodate 12 spools of short chain elastic. Clear cover with front cutout for chain elastic facilitates use and provides protection from dust. 6” x 9” x 4”.
Full Kit 402-018
Empty Kit 402-017

Covered Spool Dispenser
Compact with aesthetically pleasing design. Holds up to 18 spools. Clear hinged lid keeps spools sanitary and dust free. Slot in front of lid allows material to be dispensed without opening the cover. Portable.

GLOW IN THE DARK!
Elastic Attachers
Simplifies placement and removal of intraoral elastics.
100 per pack 402-011
250 per pack 402-010
Glow Attachers
100 per pack 402-011G

***Offers cannot be used in conjunction with other offerings.

Phone: 1.800.661.9567 | Fax: 1.800.361.5088 | Email: cerumsupplies@aurumgroup.com | www.aurumgroup.com
**Opti-MIM® Direct Bond Eyelet**
with Chain
A great addition to a popular favourite…
Our eyelet is now available with a 1” length sterling silver chain that can be used full length or trimmed as needed. Strong and completely biocompatible, the chain links are big enough to thread power elastics through to provide traction in the desired direction to expose impacted teeth.

1 per pack 430-005C

**Direct Bond Eyelet**
This Nickel-Lite® eyelet can be easily bonded to any tooth. It offers better bond strength and a Grip-LOK® base.
10 per pack 430-005

**Bite Guide™**
Open Deep Bite Cases!
This one-piece appliance is bonded to the lingual side of the upper central to efficiently open deep bite cases. Features an anatomically shaped design with smooth, radiused edges for maximum patient comfort. The micro-etched Grip-LOK® base adds superior bond strength.

DUAL PURPOSE DESIGN:
The Bite Guide’s reversible design allows the practitioner the choice of advancing the mandible while opening the bite.

(10 per pack)

**Eruption Appliance**
Round Base
- 3.5mm diameter flat base
- 80-gauge foil mesh base
- Eyelet welded to base
5 per pack 430-008

Rectangular Base
- 3.75mm x 3mm curved base
- Micro-etched mesh base
- One-piece construction
5 per pack 430-009

**Composite Direct Bond Button**
10 per pack 430-060

**MIM Crimp Stop**
Our MIM Crimp Stop can be placed anywhere on an archwire to limit tooth movement or maintain proper wire positioning. Fits round or rectangular wires up to .021 x .025.
(10 per pack)
430-020

**Orthodontic Patient Kits**
Your patients will enjoy these bright colourful kits that will provide them with everything they need while wearing braces. The slim-case style is easy to travel with and store. Assorted bright colours. Sorry, we cannot guarantee specific colours when ordering.
An assortment will be provided.

**Each Slim-case includes:**
- Orthodontic Tooth Brush
- Interproximal Brush
- Travel Brush
- Mint Wax
- Threaders
- 15-yard Mint Floss Spool
- Dental Mirror

**Prepasted Toothbrushes**
- Disposable or Reusable
- Provides a sanitary environment around the sink
- Six assorted colours: 24 of each colour per pack
- Eliminates cross contamination
- Individually wrapped
- 4 rows of bristles
- 144 per pack
668-4000-847

**Crimpable Archwire Hooks**
Precision-cast crimpable hooks are easily crimped onto archwire for precise placement in or outside of the mouth. Crimp tubes create a strong, non-sliding lock with the archwire. Ball hook may be bent for right or left applications. All hooks fit round or rectangular wire up to .018 x .025.

Crimpable Ball Hooks
(20 per pack) 430-010

Crimpable Archwire Power Hooks
(20 per pack) RIGHTS 430-015 LEFTS 430-016

Hook Crimping Plier (Straight) 201-435

**Direct Bond Lingual Buttons**
Single unit MIM construction provides ease of placement and superior retention.
20 per pack 430-002

**Micro Direct Bond Lingual Buttons**
The small size of these low-profile buttons allows bonding in hard-to-reach areas.
10 per pack 430-001
One-piece clear plastic retractor has both an anatomical small and large end. Either end is used to push the lower lip out of the way to easily photograph the mouth. Cold sterilization.

**Photo Lip Retractor**

**Cheek Retractors**
- Adult Retractors: 300-020
- Pedo Retractors: 300-021
- Teen Retractors: 300-022
- Cheek Retractor Assort.: (3 – One each size) 300-023

**Relief Wax**
Provide orthodontic relief in six fun ways! All waxes are in quality jewel cases holding four strips of wax. (50 cases per box)
- **Regular Wax** (clear case) 301-030
- **Scented Cases**
  - Bubblegum (pink case) 301-030BG
  - Cherry (red case) 301-030C
  - Lemon (yellow case) 301-030L
  - Orange (orange case) 301-030D
- **Mint Scented Wax** (clear case) 301-031

**Face Mask** *(Reverse Pull)*
For use in Class III cases. Made of stainless steel and durable plastic. Features a lightweight, comfortable design. Easily adjusted to fit all patients.
- Blue: 426-055
- Red: 426-056
- Teal: 426-057
- Pearl: 426-058

**Extra Oral Elastics**
Amber (1000 per pack) 1/2” Bulk Elastics
- (8 oz.) 408-073
- (16 oz.) 408-074

**Brace Guard™**
Orthodontic relief gel (1/8 oz. tube) and silicone wax stick dramatically reduce patient discomfort.
- **Brace Relief Kit** (10 kits per pack) 301-032
- Silicone Wax (16 mini boxes) 301-036
- Silicone Wax (30 mini boxes) 301-037

**Riofoto**
Rhodium-Coated Intraoral Photography Mirrors
*Improve Your Image*

All photographic mirrors are not the same. Mirrors coated with Rhodium, a silvery white precious metal, provide clearer, brighter images that will produce higher quality dental pictures. Superior quality pictures are an excellent tool to help improve clinical effectiveness as they may be used to promote patient education and help explain why major restorative treatment is necessary. They also provide documentation for patient records, insurance claims and case presentations to colleagues. A quality picture really is worth a thousand words!

**Item** | **Description** | **Catalogue No.**
--- | --- | ---
Riofoto Mirror X-Long (Adult) | 631-101
Riofoto Mirror X-Long (Child) | 631-102
Riofoto Mirror Palatal (Adult) | 631-103
Riofoto Mirror Palatal (Child) | 631-104
Riofoto Mirror Lingual (Narrow Inside) | 631-105
Riofoto Mirror Lingual (Wide Inside) | 631-106
Riofoto Mirror Buccal (Narrow Outside) | 631-107
Riofoto Mirror Buccal (Wide Outside) | 631-108

**Riofoto Reflectivity**

<table>
<thead>
<tr>
<th>Material</th>
<th>Reflectivity</th>
<th>Note</th>
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<tbody>
<tr>
<td>Riofoto Rhodium</td>
<td>74%</td>
<td>74%</td>
</tr>
<tr>
<td>Chrome</td>
<td>64%</td>
<td>64%</td>
</tr>
<tr>
<td>Stainless Steel</td>
<td>43%</td>
<td>43%</td>
</tr>
</tbody>
</table>

**Contact Information**
Phone: 1.800.661.9567 | Fax: 1.800.361.5088 | Email: cerumsupplies@aurumgroup.com | www.aurumgroup.com
Mathieu Pliers

**Precision Tips**

**Non-Slip Grip**

**Operator Friendly**

Smooth glide spring for consistent opening and closing.

---

**Triumph™ Mathieu Pliers**

**Narrow Tip**

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

**Smaha Ultra-Fine Tip**

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

**DSL-16 Pure Silicone Lubricant**

Specially formulated to recondition plier joints before sterilization. After cleaning, simply spray the joints to maintain smooth performance. (NOTE: Never use oil based lubricants… this will damage your pliers.)

Also available in a syringe (5.5 grams), which can ship via air freight. Spray Can 16 oz.

**DSL-16 Pure Silicone Lubricant**

(202-DL-16)

Syringe (202-DL-20)

---

**Covered Plier Rack**

Portable compact size has space for 12 pliers and a front well for assorted double-ended instruments. Clear hinged lid keeps pliers sanitary and dust free.

**Up Right Plier Stands**

Holds up to 10 pliers. Easy cleaning surface promotes a sterile environment. Available in Granite Colour and White.

Granite (201-110)

White (200-110)

**Upright Plier Rack with Cover**

Convenient shelf for double-ended instruments!

(200-243)

**Small Plier Rack #8**

Holds 8 Pliers. White, pebble-grained plastic. (200-213)

**Large Plier Rack #15**

Holds 15 Pliers. White, pebble-grained plastic. (200-203)

---

**Plier Racks**

**Small Plier Rack #8**

Holds 8 Pliers. White, pebble-grained plastic.

(200-213)

**Large Plier Rack #15**

Holds 15 Pliers. White, pebble-grained plastic.

(200-203)

---

**FREE BONUS OFFER**

Buy 8 MATHIEU Pliers and GET One FREE

---

**PRICE LIST**

(200-242)

DSL-16 Pure Silicone Lubricant

Syringe (5.5 grams), which can ship via air freight. Spray Can 16 oz.

---

**Contact Information**

Phone: 1.800.661.9567 | Fax: 1.800.361.5088 | Email: cerumsupplies@aurumgroup.com | www.aurumgroup.com
**Buccal Tube Bonder**

#1 Design for Accuracy!
This bracket-placing tweezer has a contoured tip with a size and angulation which facilitates bonding and placement of molar buccal tubes. As a reverse action tweezer, the fine tips hold the buccal tube firmly within the slot and release when pressure is applied, helping to make buccal tube placement steady and accurate.

**Swivel-Head Bracket Positioner**

This quality stainless steel tool has positions for; 3.5mm, 4.0mm, 4.5mm and 5.0mm from the occlusal surface. The swivel-head design adjusts its angle to facilitate easy use on anterior, cuspid and bicuspid brackets.

**Bracket Placer Slot Aligner**

Dual Purpose! With a bracket holder on one end and a slot aligner on the other you’ll save valuable chair time using one instrument!

**Silginat® Alginate Replacement**

Quality and convenience for opposing impressions

Silginat® is useful for a variety of indications such as:
- Anatomical models
- Opposing models
- Fabrication of temporary crown and bridges
- Fabricating simple removable prosthetic restorations
- Orthodontic appliances
- Removable mouthguards and splints
- Case study models

**Tungsten Carbide Deluxe Mathieu Pliers**

All of these mathieus feature a tungsten carbide tip which is made of a harder and more durable alloy than standard stainless steel so it resists wear while ensuring a firm grip over a longer life.

Our special Safe-T-Lock Mathieus (part numbers #201-125 and #201-126) feature locking jaws placed forward of the handle to prevent the lock from pinching the skin or snagging, catching and tearing gloves while maintaining ease of use and comfort for doctors and assistants.

---

**Silginat®** – The new A-silicone
For all alginate applications!

CALL for FREE Sample

**FREE MATHIEU Buy 6 Tungsten Pliers...and Get ONE FREE**
Endura® Plus Cutting Instruments

**Distal End Cutter (Safety Hold)**
Can easily cut all types of wires ranging from .012" (.30 mm) to .021" x .025" (.53 mm x .64 mm).

- [204-101](#)
- **w/Long Handle** [204-101XL](#)

**Distal End Cutter Safety Hold & Flush Cut**
The safety hold cutter cuts flush distal to the buccal tube. Cuts all types of wires from .010" (25 mm) up to .020" (51 mm).

- [204-111](#)

**Replacement Silicone Insert**
(3 per pack) [205-011](#)

**Hard Wire Cutter, 15˚ Angled**
Designed to cut hard wires ranging from .010" (25 mm) to .022" x .028" (56 mm x .71 mm).

- [204-103](#)

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

- [204-105](#)

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

- [204-107](#)
- **w/Long Handle** [204-107XL](#)

**Micro Mini Pin & Ligature Cutter, 15˚ Angled**
15˚ offset with fine tips allow access into hard-to-reach areas. Designed to cut soft-wire pins, elastics, and ligature wire up to .012" (30 mm).

- [204-109](#)

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

- [204-110](#)

---

Endura® Plus Utility Pliers

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

- [204-202](#)

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

- [204-203](#)

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

- [204-206](#)
- **Adhesive Remover - Replacement Blade** [204-206B](#)
- **Adhesive Remover - ¼" Replacement Pads (6)** [204-206T](#)

**Posterior Band Removing Pliers, Long**
Safely and quickly removes posterior bands. The pointed tip slides under the band while the plastic tip protects the occlusal surface of the tooth for easy band removal and patient comfort.

- [204-207](#)
- **Band Remover 3/16" Replacement Pads (6)** [204-207T](#)
- **Band Remover ¼" Replacement Pads (6)** [204-207TT](#)

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

- [204-217](#)

**Angulated Debonding Pliers**
The angulated design quickly and easily removes anterior and posterior direct bond brackets.

- [204-220XL](#)

**Crown & Band Contouring Pliers**
Ideal for reshaping molar bands and crowns.

- [204-221](#)
Endura Plus Wire Forming Instruments

Jarabak Pliers
Excellent for precise wire bending and forming of loops. The fine serrations on the square beak and three precision grooves permit accurate and intricate bends and loops. Wires up to .020" (.51 mm) 204-301

Three Jaw Pliers
Adjust clasps, retainers, and archwires without marring the wire. The precision tips are carefully beveled to create extreme accuracy in adjustments. Wires up to .030" (.76 mm) 204-302

Bird Beak Pliers
An instrument for all types of wire bending. The round- and pyramid-shaped tapered beaks will work with any size wire up to .030" (.76 mm). 204-304

Tweed Loop Forming Pliers
Excellent for making precise loops in .045" (1.1 mm), .060" (1.5 mm), and .075" (1.9 mm) diameters in wires up to .022" x .025" (.53 mm x .64 mm). 204-306

Arch Bending Pliers
Easily torque and bend wires without nicking the archwire. .070" (1.8 mm) blade width. Wires up to .022" x .025" (.53 mm x .64 mm) 204-307

Lingual Arch Forming Pliers
Forms double-back and triple-back bends in .030" (.76 mm) and .036" (.91 mm) wire for lingual sheaths. 204-309

Hollow Chop Contouring Pliers
Smooth working surfaces allow for consistent forming and contouring of arches up to .030" (.76 mm). 204-310

Mini Three Jaw Pliers
Precision tips for accurate wire and clasp adjusting and contouring. Also excellent pliers for bonding of orthopedic appliances. Superior strength for wires up to .030" (.76 mm). 204-312

Light Wire Bird Beak Pliers
Precision tapered beaks allow intricate bends and loops in archwires up to .020" (.51 mm). w/Groove 204-305

Nance Loop Forming Pliers
Precision loop forming with four step tip (3, 4, 5, and 6 mm). Excellent for wires up to .022" (.53 mm). Non-serrated tips and beveled edges prevent wire scoring. 204-319

Stop (V-Bend) Pliers
Place an accurate 1 mm V-bend with one simple squeeze to shorten archwire or provide a positive stop. Wires up to .022" x .025" (.53 mm x .64 mm). 204-321

Optical Pliers
Round and concave beaks bend round or rectangular wire with a firm grip that will not score wire. Easily bends and forms all types of wire up to .022" x .025" (.53 mm x .64 mm). 204-323

Bird Beak Pliers w/Cutter
A versatile instrument that bends and cuts wire ranging from .015" (.38 mm) to .025" (.64 mm). 204-325

Silicone Instrument Lubricant
Just one drop of this new Silicone Instrument Lubricant after the sterilization cycle will help extend the life of the instrument and maintain smooth and proper operation.

1/2 oz. Bottle 600-123

Offerings A, B and C in ENDURA® Plus Pliers cannot be used in conjunction with one another.
A Box Joint Premium Plier

Phone Customer Service to receive information on Dentronix® Orthodontic Instruments.

Original Shear-Hold Safety
Patented design Shear-Hold cuts archwires and securely holds distal ends up to .022" x .025". Pliers cut multi-strand wires without fraying. Cuts within 1/2mm of buccal tube. Cuts and holds braided, rectangular, square and round wires up to .022" x .025".
Royal 202-DE200
Classic 202-D200

Original Shear-Hold Safety Mini-Size
Tapered handle and smaller tip size permit easy posterior access. Patented design shear-cuts archwires and securely holds distal ends. Cuts and holds braided, rectangular, square and round wires up to .022" x .025".
Royal 202-DE200S
Classic 202-D200S

Safety Hold Flush Cut Plier
“V” design allows cutting and holding with one motion. Cuts and holds archwire flush to the buccal tube. Cuts and holds wires from .016" through .018" x .022" and .0175" coaxial.
Royal 202-DE200V
Classic 202-D200V
MINI-SIZE
Royal 202-DE200SV
Classic 202-D200SV

Hard Wire Cutter
Straight Head
One of our most durable cutters. Before archwire placement, cut the ends cleanly and effortlessly. Cuts round, square, rectangular and braided wires to .022" x .028".
Royal 202-DE201H
Classic 202-D201H

Ligature Cutter
Straight
Our standard pin-and-ligature cutter features a smaller head with very fine tips for close precision cutting. Cuts up to .016" soft wire.
Royal 202-DE201S
Classic 202-D201S

Ligature Cutter Straight Mini Size
Our most popular ligature cutter features a smaller head with very fine tips for close precision cutting. Cuts up to .016" soft wire.
Royal 202-DE201SA
Classic 202-D201SA

Ligature Cutter Angled 15° Mini Size
New, tapered front allows easy access in the posterior. This design is based on our most popular ligature cutter. Cuts up to .016" soft wire.
Royal 202-DE201SA
Classic 202-D201SA

Bird Beak
The most popular bird beak in the industry. This standard bird beak is excellent for all types of wire bending. Excellent for chairside as well as laboratory. The plier features stubby beaks, round on rectangular. Bends round, square and rectangular wires up to .030".
Royal 202-DE134
Classic 202-D134

Bird Beak Serrated
Unbelievable wire control with nonslipping serration on the square surface. Serrated along the entire side—it’s ideal for bending retainer clasps or any wire which has a tendency to slide. Tapered beaks, round on rectangular. Bends round, square and rectangular wires up to .030".
Royal 202-DE134S
Classic 202-D134S

Tweed Arch Plier Standard Jaw
For torquing and bending, this plier will not nick or mar the archwire. Thin jaws measure .050" wide, parallel .020" at opening. Bends round, square and rectangular wires to .022" x .028".
Royal 202-DE210
Classic 202-D210

Adams Pliers
Adams clasps are easy to fabricate with this square-on-square beak. Ideal for all types of clasps or wire bending. Choose from regular or large tip. Bends round wires up to .030".
Royal 202-DE135
Arch Contouring Plier
Non-Grooved
Based on the classic Dela Rosa design—but better. Grooves on the grooved instrument measure .018", .022" and .025". It can be used for lingual retainers, Hawley bows, or simply to expand or constrict an archwire. Classic 202-DE211P

Detailing Plier 1mm
Detail your archwire in the mouth, save chair time when you require a simple bayonet, first-order bend, or stepping the wire up or down for easier engaging. Bends round, square, and rectangular wires to .022" x .028". Classic 202-DE270-1

Weingart Plier
Serrated tips assure holding the wire firmly. The non-inserted version features all stainless construction and is an economical alternative to the inserted Weingart. Bends and holds round, square and rectangular wires to .022" x .028". Royal 202-DE213I Classic 202-D213 Non-Inserted 202-D213

Angled Debonding Plier
Narrow or Wide
Choose from 3mm or 6mm wide jaws. Designed for single or twin-size brackets.
NARROW Royal 202-DE230N Classic 202-D230N
WIDE Classic 202-D230W

Anterior Debonding/Scaler
Our most popular bracket remover. Pop-off brackets easily with this plier by holding the face of the bracket in a horizontal position and slightly applying pressure by torquing or turning in a clockwise motion. After removal, scale remaining material from the tooth surface...
Royal 202-DE231 Classic 202-D231 Rubber Replacement Tip 202-D232

Posterior Band Remover
The replaceable tip sits on the occlusal edge of the tooth adding comfort for the patient and preventing damage to the enamel. Shorter beaks for your preference. Royal 202-DE347ST Classic 202-DE347ST Replacement Tip 202-3-348-TH

Three-Prong Standard
100% stainless steel featuring slim or heavier tips. Fabricate lab appliances or simply activate archwires.
Medium Tips: Works with round, square and rectangular wires to .036".
202-D314
Fine Tips: Works with round, square and rectangular wires to .030".
202-D344T

Stop V-Bend Plier
Nickel Titanium
Stop your nickel titanium wire from sliding through the buccal tubes. Place a stop in your nickel titanium wires safely without distortion or breakage. Smooth rounded edges will not mar or fracture the wire. One squeeze places a 1mm stop anywhere on the wire. Bends round, square and rectangular wires to .022" Classic 202-DE242N

Cinch-Back Utility Plier 45°
Serrated for a firmer grip. Fine, narrow tips and long jaws make it easy to grab the wire behind the buccal tube to activate a wire or simply turn it away from the cheek. Great for lingual techniques. Bends round, square and rectangular wires to .022" x .028".
202-D503

Deluxe Elastic Separating Plier
More ergonomically designed so it fits better in the hand. The Deluxe Separating Plier securely holds the elastic while placing — yet easily releases the elastic when desired. 202-407D

Offerings A, B, C and D in DENTRONIX® Pliers cannot be used in conjunction with one another. DENTRONIX® Plier Line

Also available in—DURABLE SATIN FINISH

BUY 10 DENTRONIX PLIERS & GET A FREE UPRIGHT PLIER RACK
BUY 20 DENTRONIX PLIERS & GET 2 FREE PLIERS plus Silicone Lubricant

Phone: 1.800.661.9567 | Fax: 1.800.361.5088 | Email: cerumsupplies@aurumgroup.com | www.aurumgroup.com
THE CARRIÈRE® DISTALIZER™ METAL & CLEAR APPLIANCE
Shifting the way you think about orthodontics.

THE CARRIÈRE® SELF-LIGATING BRACKET SYSTEM
Takes Clinical Performance and Patient Outcomes to a New Level.

The Carrière Philosophy.

"ADVANCING THE FUTURE OF ORTHODONTICS"