



# ORTHODONTIC PRODUCTS CATALOG









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#### Our Mission

"Ormco is dedicated to developing innovative products and services that improve the clinician's opportunity to achieve excellent results in the least amount of time, in the fewest appointments and with the greatest patient comfort...for smiles that last a lifetime!"

Dear Orthodontic Professional:

For more than 50 years, Ormco has partnered with the orthodontic community to provide a wide array of high-quality products backed by attentive customer service. Everything that we do as a company – from our innovative products to our worldwide educational programs – is driven by our mission to help you, a progressive orthodontist, deliver excellent results to your patients.

The relentless efforts of our research and development team have created a "fortunate" challenge to keep our product catalog current; our printers just can't keep up with the pace of our new innovations designed to help you treat patients more effectively and efficiently!

With guidance from our visionary clinicians, we're proud to have pioneered many advanced technologies that are still used in practices today: direct bonding with the *first* mesh pad, the *first* rhomboid-shaped bracket and the *first* computer-engineered appliance, Orthos<sup>®</sup>. We also delivered new advancements in wire technology with Copper Ni-Ti<sup>®</sup> and TMA<sup>™</sup> as well as in temporary anchorage with VectorTAS<sup>™</sup>.

In addition, appliances such as the Damon<sup>®</sup> System and Nexus<sup>™</sup> enable clinicians to benefit from selfligation regardless of their preferred treatment mechanics. Meanwhile, Insignia<sup>™</sup> advanced smile design allows clinicians to leverage 3-D software as part of their overall treatment plan in concert with customized appliances that are unique to each patient.

We are also committed to helping you meet the needs of today's image-conscious patients by offering a full complement of aesthetic appliances such as Inspire<sup>®</sup> ICE<sup>™</sup>, Damon Clear<sup>™</sup>, Nexus<sup>™</sup> Clear, STb<sup>™</sup> Light Lingual System and Simpi5<sup>™</sup> express aligners.

But I believe we have only scratched the surface of what Ormco is able to offer you. Already, work is progressing on a number of new innovations including affordable intra-oral scanning technology through our subsidiary, Dimensional Photonics International, Inc. (DPI).

It's important to note that product innovation is just one facet of the total value that Ormco brings to your practice. From personalized service to worldwide continuing education programs and marketing support, we are committed to helping you achieve both your clinical and practice management objectives.

I invite you to explore all that Ormco has to offer in the pages of this catalog and beyond. Thank you for your trust. Thank you for the opportunity to serve you. And thank you for choosing Ormco as your partner.

Sincerely yours,

Dan Even President Ormco Corporation and Sybron Dental Specialties

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### Section One



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# Damon<sup>®</sup> System

### More Than Straight Teeth

The Damon System is a proven combination of passive self-ligating brackets, force-calibrated archwires and minimally invasive treatment protocols that work together as a low-friction system.

The Damon System eliminates the need for traditional mechanics that may require more frequent tooth extractions. Because the Damon System employs a lower ligation force, frictional resistance is minimized, leading to less unwanted forces in magnitude and direction. This facilitates more efficient treatment modalities. As a result, you can provide your patients with fast, comfortable treatment and fewer appointments.

#### SECTION PAGE 3

### Damon System

Damon<sup>®</sup> Q



Damon Q is a major step forward in low-friction, passive self-ligation technology that delivers far more than straight teeth. Whether you are new to self-ligation or an experienced user, Damon Q provides fast, controlled tooth movement with extraordinary clinical results.

### Performance and Reliability

- Four walls with optimized slot depths for improved rotation and fast tooth movement
- Stainless steel 17-4 metal-injection molded construction for strength and durability



### Efficiency

- Horizontal and vertical auxiliary slots for greater versatility
- Rhomboid-shaped bracket and pad and vertical scribe line for smile arc enhancement

### Easy Wire Changes

• Innovative SpinTek<sup>™</sup> slide with chamfered lingual leading edge facilitates easy slide closure and wire engagement

#### Easy to Open

**Easy to Close** 



### Comfortable and Aesthetic

• Small bracket sizes with smooth, rounded corners help prevent occlusal interference while offering greater comfort and aesthetics



The profile and occlusal-gingival dimensions of Damon Q are significantly smaller compared with Damon 3MX and other brackets.

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### Damon Q Marking System<sup>\*</sup>



\*Colored ID dots are located on tie-wings of each bracket.

### $Damon \ Q$ (Available in Quad<sup>m</sup> packaging, 10 ea.)

Tooth	Torque	Ang.	Rot.	Bracket Type	Part Numb	ers
Maxillary					.022 L .0	)22 R
Central	+2°	$+5^{\circ}$	0°	Low	491-6463 49	I-6462
Central	$+15^{\circ}$	$+5^{\circ}$	0°	Standard	491-6461 49	I <i>-</i> 6460
Central	+22°	$+5^{\circ}$	0°	Super	491-6467 49	I-6466
Lateral	-5°	+9°	0°	Low	491-6473 49	1-6472
Lateral	+6°	+9°	0°	Standard	491-6471 49	I <i>-</i> 6470
Lateral	+   3°	+9°	0°	Super	491-6475 49	I-6474
Cuspid	-9°	$+5^{\circ}$	0°	Low	491-6483 49	I-6482
Cuspid	+7°	$+5^{\circ}$	0°	Standard	491-6481 49	I-6480
Cuspid	+  °	$+5^{\circ}$	0°	Super	491-6485 49	I-6484
Bicuspid	-  °	+2°	0°		491-6491 49	I-6490
Bicuspid – G/O	-  °	+2°	0°		491-6591 49	I-6590
Bicuspid – Weldable	-  °	+2°	0°		161-8491 16	I-8490
l st Molar – SnapLink Tube	-   8°	0°	+12°		438-2161 43	3-2160
2nd Molar – Titanium Tube	-27°	0°	$+6^{\circ}$		449-2103 44	9-0203
Mandibular					.022 L .(	)22 R
Central	-11	+2°	0°	Low	491-6415 49	1-6414
Central	-3°	+2°	0°	Standard	491-6411 49	1-6410
Lateral	-  °	$+4^{\circ}$	0°	Low	491-6425 49	I-6424
Lateral	-3°	+4°	0°	Standard	491-6421 49	1-6420
Cuspid	0°	$+5^{\circ}$	0°	Low	491-6433 49	I-6432
Cuspid	+7°	$+5^{\circ}$	0°	Standard	491-6431 49	I-6430
Cuspid	+ I 3°	$+5^{\circ}$	0°	Super	491-6435 49	I-6434
l st Bicuspid	-12°	$+4^{\circ}$	0°	Standard	491-6441 49	I-6440
l st Bicuspid	-5°	$+4^{\circ}$	0°	Super	491-6443 49	I-6442
l st Bicuspid – G/O	-12°	$+4^{\circ}$	0°	Standard	491-6541 49	I-6540
l st Bicuspid – G/O	-5°	$+4^{\circ}$	0°	Super	491-6543 49	I-6542
l st Bicuspid – Weldable	-12°	$+4^{\circ}$	0°	Standard	161-8441 16	I-8440
l st Bicuspid – Weldable	-5°	$+4^{\circ}$	0°	Super	161-8443 16	I-8442
2nd Bicuspid	-17°	+4°	0°		491-6451 49	I-6450
2nd Bicuspid – G/O	-17°	+4°	0°		491-6551 49	1-6550
2nd Bicuspid – Weldable	-17°	+4°	0°		161-8451 16	I-8450
l st Molar – SnapLink Tube	-28°	+2°	+2°		438-2191 43	8-2190
2nd Molar – Titanium Tube	-10°	0°	+5°		449-2127 44	9-2027

Damon Auxiliary Products (See Secton 1, Page 12)

#### SECTION PAGE 5

### Damon System (cont.)

# Damon<sup>®</sup> Clear<sup>™</sup>



Damon Clear combines the clinically proven low-friction properties of passive self-ligation technology with the aesthetics that today's image-conscious patients demand. The result is a crystal-clear appliance that surpasses expectations in beauty and functionality.

### **Clear Performance**

- Completely aesthetic passive self-ligation bracket
- Polycrystalline alumina (PCA) material is resistant to staining from mustard, coffee, wine and other agents
- Low-friction force, minimizing frictional resistance for more efficient tooth movement

### **Enhanced Strength**

- Sturdy construction with fortified slide window channel and tie-wings for exceptional strength and durability
- Four walls enable effective torque expression for meticulous finishing
- Up to 70% greater rotation strength and 13% more torque than the leading active self-ligating aesthetic bracket\*

### Fast and Easy Wire Changes

• Innovative SpinTek<sup>™</sup> slide employs reciprocal forces during opening for fast, comfortable wire changes and adjustments.





\*Visit DamonSystem.com/DamonClear for clinical study information

Low Torque

### Damon Clear Bracket Placement Gauges

- Removable positioning gauge with scaler notch and rhomboid-٠ shaped brackets and pad gauge for smile arc enhancement
- Color-coded positioning gauges on brackets (3-3) denote torque values



### Damon Clear Marking System\*



\*Colored ID dots are located on tie-wings of each bracket.

### Damon Clear (Available in Quad packaging, 10 ea.)

Tooth	Torq.	Ang.	Rot.	In/Out	Bracket type	Part Nur	nbers
Maxillary						.022 L	.022 R
Central	+2°	$+5^{\circ}$	0°	.040"	Low	497-6463	497-6462
Central	+15°	$+5^{\circ}$	0°	.040"	Standard	497-6461	497-6460
Central	+22°	$+5^{\circ}$	0°	.040"	Super	497-6467	497-6466
Lateral	-5°	+9°	0°	.043"	Low	497-6473	497-6472
Lateral	+6°	+9°	0°	.043"	Standard	497-6471	497-6470
Lateral	+13°	+9°	0°	.043"	Super	497-6475	497-6474
Cuspid <sup>+</sup>	-9°	$+5^{\circ}$	0°	.030"	Low	497-6483	497-6482
Cuspid† – hook	-9°	$+5^{\circ}$	0°	.030"	Low	497-7483	497-7482
Cuspid <sup>+</sup>	+7°	$+5^{\circ}$	0°	.030"	Standard	497-6481	497-6480
Cuspid — hook	+7°	$+5^{\circ}$	0°	.030"	Standard	497-7481	497-7480
Cuspid <sup>†</sup>	+  °	$+5^{\circ}$	0°	.030"	Super	497-6485	497-6484
Cuspid — hook	+  °	$+5^{\circ}$	0°	.030"	Super	497-7485	497-7484
Bicuspid	-  °	+2°	0°	.030"	Standard	497-6491	497-6490
Bicuspid – hook	-  °	+2°	0°	.030"	Standard	497-7491	497-7490
Mandibular <sup>+</sup>						.022 L	.022 R
Central <sup>+</sup>	-3°	+2°	0°	.0445"	Standard	497-6411	497-6410
Lateral <sup>+</sup>	-3°	$+4^{\circ}$	0°	.0445"	Standard	497-6421	497-6420
Cuspid <sup>+</sup>	+7°	+5°	0°	.03   5"	Standard	497-6431	497-6430

<sup>†</sup> Available in 2012.

### Damon Clear Bracket Dimensions

Tooth	Slot	Mesial - Distal	Mesial - Distal (Incl. Pad)	Buccal - Lingual (Incl. Pad)	Occlusal - Gingival (Tie-wing - Tie-wing)	Occlusal - Gingival (Under Tie-wing)
UI	.022 × .028"	0.138"	0.138"	0.105"	0.156"	0.120"
U2	.022 × .028"	0.138"	0.138"	0.107"	0.156"	0.120"
U3	.022 × .028"	0.138"	0.138"	0.097"	0.156"	0.120"
U4-U5	.022 × .028"	0.138"	0.138"	0.103"	0.156"	0.120"

Damon Auxiliary Products (See Secton 1, Page 12)

### Damon System (cont.)

Damon 3MX<sup>™</sup>

### **Extraordinary Strength**

- Stainless steel 17-4 metal-injection molded (MIM) construction for strength and durability
- Four solid walls for fast, low-friction tooth movement and superior control
- Remarkably easy-to-use slide mechanism with deep funnel and backstop for quick wire changes
- Smooth slot corners for reduced binding even in severe deflections
- Vertical slot for removable drop-in hooks and other auxiliaries
- Contoured base design and Optimesh<sup>®</sup> XRT pads for optimal bond retention



### Damon 3MX Marking System



	Central	Lateral	Cuspid	lst Bicuspid	2nd Bicuspid
Upper*	Dark Blue	Pink	Green	Purple	Purple
High Torque**	Red	Red	Red		
Low Torque**	Green	Green			
Lower*	Yellow	Yellow	Light Blue	White	Red
High Torque**			Red		
Low Torque**	Green	Green			

\*ID dots are distogingival on all brackets including high and low torques.

\*\*ID dots are located on center of slide.

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### $Damon \ 3MX$ (Available in Quad packaging, 10 ea.)

Tooth	Torque	Ang.	Rot.	Bracket Type	Part I	lumbers
Maxillary					.022 L	.022 R
Central	+17°	$+5^{\circ}$	0°	High	494-4465	494-4464
Central	+ I 2°	$+5^{\circ}$	0°	Standard	494-4461	494-4460
Central	+7°	$+5^{\circ}$	0°	Low	494-4463	494-4462
Lateral	+10°	+9°	0°	High	494-4475	494-4474
Lateral	$+8^{\circ}$	+9°	0°	Standard	494-4471	494-4470
Lateral	+3°	+9°	0°	Low	494-4473	494-4472
Cuspid	+7°	$+6^{\circ}$	0°	High	494-4483	494-4482
Cuspid	0°	+6°	0°	Standard	494-4481	494-4480
Bicuspid	-7°	+2°	0°		494-4491	494-4490
Bicuspid – G/O	-7°	+2°	0°		494-4493	494-4492
l st Molar – SnapLink Tube	-18°	0°	+12°		438-2161	438-2160
l st Molar – SL Buccal Tube*	-18°	0°	+   2°		438-2103	438-2104
2nd Molar – Titanium Buccal Tube*	-27°	0°	$+6^{\circ}$		449-1203	449-0203
Damon 3MX Drop-in Hooks, 30 pe	er pack				242-0012	
Mandibular					.022 L	.022 R
Anteriors	- °	+2°	0°	Standard	494-4411	494-4410
Anteriors	-6°	+2°	0°	Low	494-4413	494-4412
Cuspid	+7°	$+5^{\circ}$	0°	High	494-4433	494-4432
Cuspid	0°	$+5^{\circ}$	0°	Standard	494-443	494-4430
l st Bicuspid	-12°	+2°	0°		494-4441	494-4440
l st Bicuspid – G/O	-12°	+2°	0°		494-4443	494-4442
2nd Bicuspid	-17°	+2°	0°		494-4451	494-4450
2nd Bicuspid – G/O	-17°	+2°	0°		494-4453	494-4452
l st Molar – SnapLink Tube	-28°	+2°	+2°		438-2191	438-2190
l st Molar – SL Buccal Tube*	-28°	+2°	+2°		438-2101	438-2102
2nd Molar – Titanium Buccal Tube*	-10°	0°	$+5^{\circ}$		449-2127	449-2027
Damon 3MX Drop-in Hooks, 30 pe	er pack				242-0012	

\* Bondable tubes. Contact Ormco for weldable tube options.

Damon Auxiliary Products (See Secton 1, Page 12)

### Damon System(cont.)

Damon 3

### Extraordinary Beauty

- A combination of clear material and stainless steel for aesthetics
- Four solid walls for fast, low-friction tooth movement and superior control
- Ultra-smooth contours and rounded edges





### Damon 3 Marking System



	Central	Lateral	Cuspid	lst Bicuspid	2nd Bicuspid
Upper*	Dark Blue	Pink	Green	Purple	Purple
High Torque**	Red	Red	Red		
Low Torque**	Green	Green			
Lower*	Yellow	Yellow	Light Blue	White	Red
High Torque**			Red		
Low Torque**	Green	Green			

\*ID dots are distogingival on all brackets, including high and low torques.

\*\*ID dots are located on center of slide.

### SECTION | PAGE ||

### Damon 3 (Available in Quad packaging, 10 ea.)

Tooth	Torque Ang. Rot. Bracket Type		Bracket Type	Part		
Maxillary					.022 L	.022 R
Central	+17°	$+5^{\circ}$	0°	High	491-4141	491-4140
Central	+12°	$+5^{\circ}$	0°	Standard	491-4111	491-4110
Central	+7°	$+5^{\circ}$	0°	Low	491-4121	491-4120
Lateral	+ 10°	+9°	0°	High	491-4241	491-4240
Lateral	$+8^{\circ}$	+9°	0°	Standard	491-4211	491-4210
Lateral	+3°	+9°	0°	Low	491-4221	491-4220
Cuspid	+7°	$+6^{\circ}$	0°	Super	491-4361	491-4360
Cuspid	0°	$+6^{\circ}$	0°	Standard	491-4331	491-4330
Cuspid — hook	+7°	$+6^{\circ}$	0°	High	491-5361	491-5360
Cuspid — hook	0°	$+6^{\circ}$	0°	Standard	491-5331	491-5330
Bicuspid	-7°	+2°	0°		491-4521	491-4520
Bicuspid – hook	-7°	+2°	0°		491-5521	491-5520
l st Molar – SnapLink Tube	-   8°	0°	+ I 2°		438-2161	438-2160
l st Molar – SL Buccal Tube*	-   8°	0°	+12°		438-2103	438-2104
2nd Molar – Titanium Buccal Tube*	-27°	0°	+6°		449-1203	449-0203
Mandibular					.022 L	.022 R
Anteriors	-l°	$+2^{\circ}$	0°	Standard	491-4021	491-4020
Anteriors	$-6^{\circ}$	$+2^{\circ}$	0°	Low	491-4051	491-4050
Cuspid	+7°	$+5^{\circ}$	0°	High	491-4461	491-4460
Cuspid	0°	$+5^{\circ}$	0°	Standard	49   -443	491-4430
Cuspid — hook	+7°	$+5^{\circ}$	0°	High	491-5461	491-5460
Cuspid — hook	0°	$+5^{\circ}$	0°	Standard	491-5431	491-5430
l st Bicuspid	-12°	+2°	0°		491-4621	491-4620
l st Bicuspid – hook	-12°	+2°	0°		491-5621	491-5620
2nd Bicuspid	-17°	+2°	0°		491-4721	491-4720
2nd Bicuspid – hook	-17°	+2°	0°		491-5721	491-5720
l st Molar – SnapLink Tube	-28°	+2°	+2°		438-2191	438-2190
l st Molar – SL Buccal Tube*	-28°	+2°	+2°		438-2101	438-210
2nd Molar – Titanium Buccal Tube*	-10°	0°	+5°		449-2127	449-2027

\* Bondable tubes. Contact Ormco for weldable tube options.

Damon Auxiliary Products (See Secton 1, Page 12)

### Damon System (cont.)

### Damon Auxiliary Products

	Part Numbers
Hooks, Power Products & Elastics	
Damon Q Drop-in Hooks (U/L 5-5), 30 per pack	242-0114
Damon 3MX Drop-in Hooks (U/L 5-5), 30 per pack	242-0012
Damon Tieback Modules – Size I (gray), 40 per pack	637-0011
Damon Tieback Modules – Size I (clear), 40 per pack	637-0012
Damon Tieback Modules – Size 2 (gray), 40 per pack	637-0021
Damon Tieback Modules – Size 2 (clear), 40 per pack	637-0022
Generation II Power Chain – closed space (gray)	639-0001
Generation II Power Chain – closed space (clear)	639-0002
Generation II Power Chain – open space (gray)	639-0003
Generation II Power Chain – open space (clear)	639-0004
Zoo Pack Elastics, 1/4" Extra Heavy Ram	630-0051
Zoo Pack Elastics, 5/16" Extra Heavy Moose	630-0052
Open Coil Springs I 5" Medium Force (spool)	704-6054
Closed Coil Springs 9mm Medium Force (10)	704-6066
Closed Coil Springs 12mm Medium Force (10)	704-6062
Bite Turbos	350-0000
Instruments	
SpinTek™ Opening Tool (Use with Damon Q, Damon Clear & SnapLink tubes)	866-4014
SpinTek™ Opening/Closing Tool (Use with Damon Q, Damon Clear & SnapLink tubes)	866-4016
Damon 3/3MX Dual Tip Opening Instrument – 45°/90° (single piece)	866-4012
Damon 3/3MX Dual Tip Opening Instrument – 0°/90° (single piece)	866-4013
Damon Cool Tool (archwire director)	866-4003
Positive Positioner (for bondable molar tubes)	800-2222
Rectangular Arch-Forming Plier	800-8100
Wire Utilty Plier	803-0520
Damon Q Debonding/Repositioning Instrument	866-4008
Damon Clear Debonding Instrument	866-4019
Inspire Debonding Instrument (for Damon 3 only)	803-0205
Damon 3MX Debonding/Repositioning Instrument	866-4015

# Nexus<sup>®</sup> System

The Nexus bracket system allows you to use your preferred treatment mechanics to determine which stage of interactive self-ligation to employ throughout treatment. Nexus incorporates the benefits of self-ligation while fully adapting to your preference of clip activation-whether it be passive, active, fully active or any combination thereof. Reach the end result your way, with easy-to-use, meticulously designed Nexus.



### **Excellent Clean-up**

Channeling on three sides of the Nexus bracket reduces adhesive clean-up and flash when bonding. Adhesive is dispersed from the clip opening to prevent locking.



### The Interactive Spectrum

The innovative Nexus clip is passive in the leveling and aligning stages and active during the major mechanics and finishing.







**Passive Clip** Up to .016" x .022 or .018" x .018"

**Active Clip** Larger than .016" x .022' or .018" x .018"

**Fully Activated Clip** With .018" x .025" (.018" slot) or .022" x .025" (.022" slot)

#### More Control, Less Friction

The contoured slot edges of Nexus are designed with four contact points to minimize friction while delivering greater control, resulting in fast, efficient tooth movement.



### **Multiple Clip Openings**

Facilitating fast wire changes and satisfying user preference, the Nexus clip may be opened from two different positions on the bracket. The clip is easily closed using gently finger pressure.



both Nexus and Nexus Clear allows for occlusal opening.



The facial indent on the clip of The gingival channel provides an additional opening option.

### Nexus System (cont.)

Nexus<sup>®</sup> Metal

- Anatomically contoured base adheres to each tooth shape for long-term bond reliability.
- Gingival opening with precision-channel clip release for quick and efficient wire changes.
- Unique 4-rail system provides optimal sliding and reduced friction/binding.
- Funnel-edge design naturally guides excess adhesive towards the incisal edge of the bracket, reducing flash for easier clean-up.



The anatomically contoured base of Nexus features patented hooked undercuts to provide 30% greater bond reliability than appliances with mesh pads<sup>\*</sup>. Compare the cross-section SEMs of the Nexus bracket base (image #1) and the leading active SL mesh bracket base (image #2). SEMs were captured after adhesive was applied and lightcured (purple color added to adhesive for enhanced visibility). \* Internal data on file.



Image I Nexus pad base with hooked undercuts allows for deeper penetration of the adhesive for greater bond reliability.



#### Image 2

The double mesh pad design of this SL bracket inhibits the flow of adhesive onto the base. The resulting uneven coverage may reduce bond strength.



## Tensile Bond Strength\*



In comparison to the double mesh pad of In-Ovation R, Nexus provides greater tensile bond strength for reduced bond failures.

#### Internal data on file.

<sup>‡</sup> In-Ovation is a registered trademark of Dentsply GAC International.

Part Numbers

### Nexus System (cont.)

### Nexus Metal Marking System

5 4	3	2	1	1	2	3	4	5
<u> </u>							0	
5 4	3	2	1	1	2	3	4	5

### Nexus Metal (Available in Quad packaging, 10 ea.)

Tooth	Torqu	e Ang.	Rot.			Part Number	S
Maxillary				.018 L	.018 R	.022 L	.022 R
Central	+12°	$+5^{\circ}$	0°	336-3111	336-3110	337-3111	337-3110
Lateral	+8°	+9°	0°	336-3211	336-3210	337-3211	337-3210
Cuspid	-2°	$+  ^{\circ}$	$+4^{\circ}$	336-3311	336-3310	337-3311	337-3310
Cuspid — hook	-2°	+  °	$+4^{\circ}$	336-4311	336-4310	337-4311	337-4310
Bicuspid	-7°	0°	-2°	336-3511	336-3510	337-3511	337-3510
Bicuspid – hook	-7°	0°	-2°	336-4511	336-4510	337-4511	337-4510
Mandibular				.018 L	.018 R	.022 L	.022 R
Anteriors	0°	0°	0°	336-3611	336-3610	337-3611	337-3610
Cuspid	-  °	+7°	+2°	336-3711	336-3710	337-3711	337-3710
Cuspid — hook	-  °	+7°	+2°	336-4711	336-4710	337-4711	337-4710
l st Bicuspid	-17°	0°	-4°	336-3811	336-3810	337-3811	337-3810
l st Bicuspid – hook	-17°	0°	-4°	336-4811	336-4810	337-4811	337-4810
2nd Bicuspid	-22°	0°	-4°	336-3911	336-3910	337-3911	337-3910
2 nd Bicuspid – hook	-22°	0°	-4°	336-4911	336-4910	337-4911	337-4910

### Nexus Metal Auxiliary Products

Nexus Opening Instrument (metal & clear)	866-4030
Nexus Arch Director (metal & clear)	866-403 I
Nexus Removing Plier (metal & clear)	866-4032
Nexus Typodont (metal)	717-1059

### Nexus System (cont.)

Nexus Clear<sup>®</sup>

- Translucent design naturally matches each patient's tooth shade for ultimate aesthetics
- Inverse-formed hooks and beveled edges provide superb mechanical retention and long term bond strength
- Specifically calibrated debonding tool for fast, comfortable, splinter free removal
- Contoured slot edges with a four contact-point design delivers optimal archwire tolerance for greater control and precision results





Patented Nexus Clear base encourages adhesive to remain on the tooth during removal, facilitating simple cleanup and enamel preservation.



Ambidextrous debonding tool form fits to the bracket's proximal surfaces.



Applying distal leverage pares the bracket from the tooth, enabling fast, splinter-free removal in 99.9% of cases.\*





Dave Number

### Nexus System (cont.)

### Nexus Clear Marking System



### Nexus Clear (Available in Quad packaging, 10 ea.)

Tooth	Torque	Ang.	Rot.	Part Numbers				
Maxillary				.018 L	.018 R	.022 L	.022 R	
Central	+12°	$+5^{\circ}$	0°	436-3111	436-3110	437-3111	437-3110	
Lateral	$+8^{\circ}$	+9°	0°	436-3211	436-3210	437-3211	437-3210	
Cuspid — hook	-2°	+  °	+4°	436-4311	436-4310	437-4311	437-4310	
Bicuspid – hook	-7°	0°	-2°	436-4511	436-4510	437-4511	437-4510	
Mandibular				.018 L	.018 R	.022 L	.022 R	
Central*	0°	0°	0°	436-3611	436-3610	437-3611	437-3610	
Lateral*	0°	0°	0°	436-3611	436-3610	437-3611	437-3610	
Cuspid – hook*	-  °	+7°	+2°	436-4711	436-4710	437-4711	437-4710	

\* Available mid-2011

### Nexus Clear Auxiliary Products

	Fart Numbers
Nexus Opening Instrument (metal & clear)	866-4030
Nexus Arch Director (metal & clear)	866-4031
Nexus Removing Plier (metal & clear)	866-4032
Nexus Clear Debonding Tool (clear)	866-4033
Nexus Clear Typodont	717-1060

### Titanium Orthos<sup>™</sup> Straightwire Perfected

### **Coordinated System**

Titanium Orthos combines the most precise bracket and wire system with the proven material benefits of titanium for the finest straightwire twin appliance on the market.

- Unique stored energy properties of titanium
- Up to 85% fewer bond failures
- Fewer detailing appointments
- Tooth-shaped pads for ideal placement
- Biocompatible and corrosion-free

### Stored Energy

The body of the Titanium Orthos bracket is designed to flex when activated with an archwire and to store up to 40% of the initial load. With Titanium Orthos, clinicians enjoy more gentle forces, for greater patient comfort. Similar to titanium alloy archwires, titanium provides a far more predictable return and precise expression at unloading over an extended period of time. Less force and longer treatment intervals translate to shorter treatment time and greater efficiency for your practice. Titanium Orthos has been shown to reduce treatment time by eliminating two to three finishing appointments.





### Fit and Forget

Tooth-specific pad shapes and contours make Titanium Orthos brackets amazingly easy to place for more accurate finishing and reduced midtreatment repositioning. Titanium's chemical affinity to adhesives and superior shock absorbency deliver unmatched bond retention. In-office studies have demonstrated significant reduction in bond failures. With Titanium Orthos, you simply fit and forget until the end of treatment, providing greater clinical and practice efficiency.

- Tooth-shaped pads on every bracket for easy and consistent placement
- Unmatched bond retention up to 85% fewer bond failures



"With Titanium Orthos, we experienced an 85% reduction in bond failures!" – David M. Sarver, DMD, MS

### Titanium Orthos (cont.)

### Compensation In Slot (CIS)<sup>1</sup>

Compensation is cut into the slot of the lower cuspid brackets and the shape of the archwire is adjusted to sweep as close to the tooth surface as is practical. This allows a dramatic reduction in the profile of the lower anterior brackets. The Compensation In Slot (CIS) geometry does not "rotate" the tooth. The CIS geometry does, in conjunction with the archwires, compensate for 1st order discrepancies.

### **Titanium Orthos Marking System**



#### Titanium Orthos (Available in Quad packaging, 10 ea.; single-patient kits)

				.018 L	.018 R	.022 L	.022 R
+22°	$+5^{\circ}$	0°	High	448-8119	448-8118	449-8119	449-8118
+15°	+5°	0°	Standard	448-6111	448-6110	449-6111	449-6110
$+14^{\circ}$	+9°	-4.5°	High	448-8219	448-8218	449-8219	449-8218
$+14^{\circ}$	+9°	0°	High, non CIS	448-8217	448-8216	449-8217	449-8216
+9°	+9°	-4.5°	Standard	448-6211	448-6210	449-6211	449-6210
+9°	+9°	0°	Standard, non CIS	448-6213	448-6212	449-6213	449-6212
+9°	+9°	-4.5°	Standard	448-9211	448-9210	449-9211	449-9210
+7°	$+10^{\circ}$	0°	Super	448-8319	448-8318		
+7°	+10°	0°	Super, M/G hook	448-9319	448-9318	449-9319	449-9318
-3°	$+10^{\circ}$	0°	Standard	448-63	448-6310	449-6311	449-6310
-3°	$+10^{\circ}$	0°	Standard	448-73	448-7310	449-7311	449-7310
-6°	0°	0°	Standard, G/O	448-6411	448-6410	449-6411	449-6410
-6°	0°	0°	Standard, G/O	448-6413	448-6412	449-6413	449-6412
-8°	$+4^{\circ}$	0°	Standard, G/O	448-6511	448-6510	449-6511	449-6510
-8°	+4°	0°	Standard, G/O	448-6513	448-6512	449-6513	449-6512
-10°	0°	10°	Single	448-1201	448-0201	449-1201	449-0201
-10°	0°	۱5°	Single	448-2116	448-2016	449-2116	449-2016
-10°	0°	۱5°	Single	448-2117	448-2017	449-2117	449-2017
-10°	0°	6°	Single	448-1202	448-0202	449-1202	449-0202
-27°	0°	6°	Single	448-1203	448-0203	449-1203	449-0203
	$+22^{\circ}$ +15° +14° +9° +9° +9° +7° -7° -3° -3° -6° -6° -6° -8° -8° -10° -10° -10° -10° -10°	$+22^{\circ}$ $+5^{\circ}$ $+15^{\circ}$ $+5^{\circ}$ $+14^{\circ}$ $+9^{\circ}$ $+9^{\circ}$ $+9^{\circ}$ $+9^{\circ}$ $+9^{\circ}$ $+9^{\circ}$ $+9^{\circ}$ $+9^{\circ}$ $+9^{\circ}$ $+7^{\circ}$ $+10^{\circ}$ $-3^{\circ}$ $+10^{\circ}$ $-3^{\circ}$ $+10^{\circ}$ $-6^{\circ}$ $0^{\circ}$ $-6^{\circ}$ $0^{\circ}$ $-8^{\circ}$ $+4^{\circ}$ $-10^{\circ}$ $0^{\circ}$ $-10^{\circ}$ $0^{\circ}$ $-10^{\circ}$ $0^{\circ}$	$+22^{\circ}$ $+5^{\circ}$ $0^{\circ}$ $+15^{\circ}$ $+5^{\circ}$ $0^{\circ}$ $+14^{\circ}$ $+9^{\circ}$ $-4.5^{\circ}$ $+14^{\circ}$ $+9^{\circ}$ $0^{\circ}$ $+9^{\circ}$ $+9^{\circ}$ $-4.5^{\circ}$ $+9^{\circ}$ $+9^{\circ}$ $-4.5^{\circ}$ $+9^{\circ}$ $+9^{\circ}$ $-4.5^{\circ}$ $+9^{\circ}$ $+9^{\circ}$ $0^{\circ}$ $+7^{\circ}$ $+10^{\circ}$ $0^{\circ}$ $-3^{\circ}$ $+10^{\circ}$ $0^{\circ}$ $-3^{\circ}$ $+10^{\circ}$ $0^{\circ}$ $-6^{\circ}$ $0^{\circ}$ $0^{\circ}$ $-6^{\circ}$ $0^{\circ}$ $0^{\circ}$ $-6^{\circ}$ $0^{\circ}$ $10^{\circ}$ $-8^{\circ}$ $+4^{\circ}$ $0^{\circ}$ $-10^{\circ}$ $0^{\circ}$ $15^{\circ}$ $-10^{\circ}$ $0^{\circ}$ $15^{\circ}$ $-10^{\circ}$ $0^{\circ}$ $6^{\circ}$	$+22^{\circ}$ $+5^{\circ}$ $0^{\circ}$ High $+15^{\circ}$ $+5^{\circ}$ $0^{\circ}$ Standard $+14^{\circ}$ $+9^{\circ}$ $-4.5^{\circ}$ High $+14^{\circ}$ $+9^{\circ}$ $0^{\circ}$ High, non CIS $+9^{\circ}$ $+9^{\circ}$ $-4.5^{\circ}$ Standard $+9^{\circ}$ $+9^{\circ}$ $0^{\circ}$ Standard, non CIS $+9^{\circ}$ $+9^{\circ}$ $0^{\circ}$ Standard $+7^{\circ}$ $+10^{\circ}$ $0^{\circ}$ Super $+7^{\circ}$ $+10^{\circ}$ $0^{\circ}$ Super, M/G hook $-3^{\circ}$ $+10^{\circ}$ $0^{\circ}$ Standard $-3^{\circ}$ $+10^{\circ}$ $0^{\circ}$ Standard $-3^{\circ}$ $+10^{\circ}$ $0^{\circ}$ Standard $-3^{\circ}$ $+10^{\circ}$ $0^{\circ}$ Standard $-8^{\circ}$ $+4^{\circ}$ $0^{\circ}$ Standard, G/O $-8^{\circ}$ $+4^{\circ}$ $0^{\circ}$ Standard, G/O $-10^{\circ}$ $0^{\circ}$ $15^{\circ}$ Single $-10^{\circ}$ $0^{\circ}$ $15^{\circ}$ Single $-10^{\circ}$ $0^{\circ}$ $6^{\circ}$ Single $-10^{\circ}$ $0^{\circ}$ $6^{\circ}$ Single $-10^{\circ}$ $0^{\circ}$ $6^{\circ}$ Single $-10^{\circ}$ $0^{\circ}$ $6^{\circ}$ Single	$+22^{\circ}$ $+5^{\circ}$ $0^{\circ}$ High $448.8119$ $+15^{\circ}$ $5^{\circ}$ $5$ standard $448.6111$ $+14^{\circ}$ $+9^{\circ}$ $-4.5^{\circ}$ High, non CIS $448.8219$ $+14^{\circ}$ $+9^{\circ}$ $0^{\circ}$ High, non CIS $448.6211$ $+9^{\circ}$ $+9^{\circ}$ $-4.5^{\circ}$ Standard, non CIS $448.6213$ $+9^{\circ}$ $+9^{\circ}$ $-4.5^{\circ}$ Standard, non CIS $448.6213$ $+9^{\circ}$ $+9^{\circ}$ $-4.5^{\circ}$ Standard $448.9211$ $+7^{\circ}$ $+10^{\circ}$ $0^{\circ}$ Super $448.8319$ $+7^{\circ}$ $+10^{\circ}$ $0^{\circ}$ Super, M/G hook $448.9319$ $-3^{\circ}$ $+10^{\circ}$ $0^{\circ}$ Standard $448.6311$ $-3^{\circ}$ $+10^{\circ}$ $0^{\circ}$ Standard $448.6311$ $-6^{\circ}$ $0^{\circ}$ $0^{\circ}$ Standard, G/O $448.6413$ $-6^{\circ}$ $0^{\circ}$ $0^{\circ}$ Standard, G/O $448.6513$ $-10^{\circ}$ $0^{\circ}$ $10^{\circ}$ Single $448.1201$ $-10^{\circ}$ $0^{\circ}$ $15^{\circ}$ Single $448.2117$ $-10^{\circ}$ $0^{\circ}$ $15^{\circ}$ Single $448.1202$ $-10^{\circ}$ $0^{\circ}$ $6^{\circ}$ Single $448.1203$ $-27^{\circ}$ $0^{\circ}$ $6^{\circ}$ Single $448.1203$ <td>+22°    +5°    0°    High    448-8119    448-8119      +15°    +5°    0°    Standard    448-6111    448-6110      +14°    +9°    -4.5°    High, non CIS    448-8217    448-8216      +14°    +9°    0°    High, non CIS    448-8217    448-8216      +9°    +9°    -4.5°    Standard, non CIS    448-6211    448-6210      +9°    +9°    0°    Standard, non CIS    448-6213    448-6213      +9°    +9°    0°    Standard, non CIS    448-6213    448-6210      +9°    +9°    0°    Standard    448-6213    448-6213      +1°    +10°    0°    Standard    448-611    448-6213      +1°    +10°    0°    Standard    448-611    448-6318      -7°    +10°    0°    Standard    448-6311    448-6311      -3°    +10°    0°    Standard, G/O    448-6311    448-6310      -6°    0°    0°    Standard, G/O    448-6513    448-6513      -8°    +4°    0°</td> <td><math>+22^\circ</math><math>+5^\circ</math><math>0^\circ</math>High<math>448.8119</math><math>448.8118</math><math>449.8118</math><math>449.8119</math><math>+15^\circ</math><math>+5^\circ</math><math>0^\circ</math>Standard<math>448.6111</math><math>448.6110</math><math>449.6111</math><math>+14^\circ</math><math>+9^\circ</math><math>-4.5^\circ</math>High<math>448.210</math><math>448.8219</math><math>448.8218</math><math>449.8218</math><math>+14^\circ</math><math>+9^\circ</math><math>0^\circ</math>High, non CIS<math>448.8217</math><math>448.8216</math><math>449.6211</math><math>+9^\circ</math><math>+9^\circ</math><math>-4.5^\circ</math>Standard, non CIS<math>448.6213</math><math>448.6212</math><math>449.6213</math><math>+9^\circ</math><math>+9^\circ</math><math>-4.5^\circ</math>Standard, non CIS<math>448.6213</math><math>448.9210</math><math>449.9213</math><math>+9^\circ</math><math>+9^\circ</math><math>-4.5^\circ</math>Standard, non CIS<math>448.6213</math><math>448.9210</math><math>449.9213</math><math>+7^\circ</math><math>+10^\circ</math><math>0^\circ</math>Standard, non CIS<math>448.6313</math><math>448.9210</math><math>449.9213</math><math>+7^\circ</math><math>+10^\circ</math><math>0^\circ</math>Standard<math>448.9211</math><math>448.9210</math><math>449.9213</math><math>-7^\circ</math><math>+10^\circ</math><math>0^\circ</math>Standard<math>448.9318</math><math>449.9318</math><math>449.9318</math><math>-3^\circ</math><math>+10^\circ</math><math>0^\circ</math>Standard, G/O<math>448.6411</math><math>448.6410</math><math>449.6411</math><math>-6^\circ</math><math>0^\circ</math><math>0^\circ</math>Standard, G/O<math>448.6413</math><math>448.6412</math><math>449.6513</math><math>-6^\circ</math><math>0^\circ</math><math>0^\circ</math>Standard, G/O<math>448.611</math><math>448.6513</math><math>449.2017</math><math>-8^\circ</math><math>+4^\circ</math><math>0^\circ</math>Standard, G/O<math>448.611</math><math>448.611</math><math>449.611</math><math>-8^\circ</math><math>+4^\circ</math><math>0^\circ</math>Standard, G/O<math>448.611</math><math>448.201</math><math>449.611</math><math>-10^\circ</math><math>0</math></td>	+22°    +5°    0°    High    448-8119    448-8119      +15°    +5°    0°    Standard    448-6111    448-6110      +14°    +9°    -4.5°    High, non CIS    448-8217    448-8216      +14°    +9°    0°    High, non CIS    448-8217    448-8216      +9°    +9°    -4.5°    Standard, non CIS    448-6211    448-6210      +9°    +9°    0°    Standard, non CIS    448-6213    448-6213      +9°    +9°    0°    Standard, non CIS    448-6213    448-6210      +9°    +9°    0°    Standard    448-6213    448-6213      +1°    +10°    0°    Standard    448-611    448-6213      +1°    +10°    0°    Standard    448-611    448-6318      -7°    +10°    0°    Standard    448-6311    448-6311      -3°    +10°    0°    Standard, G/O    448-6311    448-6310      -6°    0°    0°    Standard, G/O    448-6513    448-6513      -8°    +4°    0°	$+22^\circ$ $+5^\circ$ $0^\circ$ High $448.8119$ $448.8118$ $449.8118$ $449.8119$ $+15^\circ$ $+5^\circ$ $0^\circ$ Standard $448.6111$ $448.6110$ $449.6111$ $+14^\circ$ $+9^\circ$ $-4.5^\circ$ High $448.210$ $448.8219$ $448.8218$ $449.8218$ $+14^\circ$ $+9^\circ$ $0^\circ$ High, non CIS $448.8217$ $448.8216$ $449.6211$ $+9^\circ$ $+9^\circ$ $-4.5^\circ$ Standard, non CIS $448.6213$ $448.6212$ $449.6213$ $+9^\circ$ $+9^\circ$ $-4.5^\circ$ Standard, non CIS $448.6213$ $448.9210$ $449.9213$ $+9^\circ$ $+9^\circ$ $-4.5^\circ$ Standard, non CIS $448.6213$ $448.9210$ $449.9213$ $+7^\circ$ $+10^\circ$ $0^\circ$ Standard, non CIS $448.6313$ $448.9210$ $449.9213$ $+7^\circ$ $+10^\circ$ $0^\circ$ Standard $448.9211$ $448.9210$ $449.9213$ $-7^\circ$ $+10^\circ$ $0^\circ$ Standard $448.9318$ $449.9318$ $449.9318$ $-3^\circ$ $+10^\circ$ $0^\circ$ Standard, G/O $448.6411$ $448.6410$ $449.6411$ $-6^\circ$ $0^\circ$ $0^\circ$ Standard, G/O $448.6413$ $448.6412$ $449.6513$ $-6^\circ$ $0^\circ$ $0^\circ$ Standard, G/O $448.611$ $448.6513$ $449.2017$ $-8^\circ$ $+4^\circ$ $0^\circ$ Standard, G/O $448.611$ $448.611$ $449.611$ $-8^\circ$ $+4^\circ$ $0^\circ$ Standard, G/O $448.611$ $448.201$ $449.611$ $-10^\circ$ $0$

All bicuspid brackets are gingivally offset.

All hooks are distogingival unless otherwise noted.

\* Compensation in Slot/Distal offset.

### Titanium Orthos (cont.)

### **Titanium Orthos**

	Torque	Ang.	Rot*	Bracket Type		Part Numbers		
Mandibular					.018 L	.018 R	.022 L	.022 R
Central	-5°	+2°	0°	Standard	448-6615	448-6610	449-6615	449-6610
Central	-10°	+2°	0°	Low	448-8617	448-8612	449-8617	449-8612
Lateral	-5°	$+4^{\circ}$	-4.5°	Standard	448-6625	448-6620	449-6625	449-6620
Lateral	-5°	$+4^{\circ}$	0°	Standard, non CIS	448-8629	448-8624	449-8629	449-8624
Lateral	-10°	$+4^{\circ}$	0°	Low	448-8627	448-8622	449-8627	449-8622
Cuspid	+7°	+6°	-4.5°	High	448-8719	448-8718		
Cuspid — hook	+7°	+6°	-4.5°	High, M/G hook	448-9719	448-9718		
Cuspid — hook	+7°	$+6^{\circ}$	-4.5°	High			449-9721	449-9720
Cuspid	-6°	+6°	-4.5°	Standard	448-6711	448-6710	449-6711	449-6710
Cuspid — hook	-6°	+6°	-4.5°	Standard	448-7711	448-7710	449-7711	449-7710
l st Bicuspid	-7°	+3°	0°	Standard, G/O	448-6813	448-6812	449-6813	449-6812
l st Bicuspid – hook	-7°	+3°	0°	Standard, G/O	448-6815	448-6814	449-6815	449-6814
2nd Bicuspid	-9°	+3°	0°	Standard, G/O	448-6911	448-6910	449-6911	449-6910
2nd Bicuspid – hook	-9°	+3°	0°	Standard, G/O	448-6913	448-6912	449-6913	449-6912
2nd Bicuspid	-17°	+3°	0°	Low, G/O	448-8917	448-8916		
2nd Bicuspid – hook	-17°	+3°	0°	Low, G/O	448-9917	448-9916		
l st Molar – hook	-10°	0°	0°	Single	448-2126	448-2026	449-2126	4492026
Ist Molar – hook	-22°	0°	0°	Single	448-1204	448-0204	449-1204	449-0204
l st Molar – hook	-22°	0°	5°	Single	448-1206	448-0206	449-1206	449-0206
2nd Molar – hook	-10°	0°	5°	Single	448-2127	448-2027	449-2127	449-2027
2nd Molar – hook	-22°	0°	5°	Single	448-1205	448-0205	449-1205	449-0205
Single-Patient Kits								
Single-Patient Kit	Uppe	r/Lower	5 – 5, hoo	ks on Cuspids	740	)-1278	740	)-1279

740-1280

740-1281

Single-Patient Kit

Upper/Lower 7 – 7, hooks on Cuspids and Molars

All bicuspid brackets are gingivally offset.

All hooks are distogingival unless otherwise noted.

\* Compensation in Slot/Distal offset.

#### SECTION PAGE 2

### **Orthos**<sup>®</sup> Straightwire Simplified



### Ins and Outs of Orthos

Orthos is derived from computer-aided anatomical analysis of hundreds of orthodontic cases and is the first computer-engineered coordinated system of brackets and wires. The precision bracket geometries and a coordinated arch form are designed to eliminate the common challenges of everyday treatment, reducing the need for compensating wire bends and delivering quality results from crown to root tip.



Progressive distal root tip for ideal root alignment



Improved cuspid-to-lateral and bicuspid-to-molar transitions eliminate the need for common firstorder bends



Low-profile lower anterior brackets with compensated-slot cuspids and a coordinated arch form for reduced occlusal interference and greater patient comfort



Orthos Bracket/Wire System achieves a smooth coordinated arch form

### Coordinated Archwire System

The bio-engineered geometries of the Orthos appliance are designed to work specifically with the industry's first coordinated archwire system. Although the arch form may seem unorthodox, it reflects programmed compensations like low-profile anteriors, tooth-specific in/outs, and improved molar torque. The combination delivers finishing precision heralded by the world's most demanding clinicians. The Orthos arch form comes in a full complement of sizes, alloys and configurations to treat all your cases effectively and efficiently from start to precision finish.

### Orthos<sup>®</sup> (cont.)

### Orthos\* Marking System

- All brackets are color-coded by quadrant.
  Upper right Blue
  Upper left Black
  - at Pad Lower left Val
  - Lower right Red Lower left Yellow The dimple or paint mark is on the distogingival tie-w
- The dimple or paint mark is on the distogingival tie-wing unless otherwise noted.
- Upper and lower 2nd bicuspids have dimples/paint on both gingival tie-wings.
- Upper centrals are wider than upper laterals.
- The lower laterals, cuspids and bicuspids also feature a scribe line on the occlusal tie-wing.
- Because of the specificity of the Orthos appliance, there are no universal brackets.
- Orthos lower laterals with CIS have a permanent I.D. dot on the distogingival tie-wing, with the appropriate color.

\* Distributed in Europe as Ortho-CIS.

To achieve the proper expression of the Orthos appliance, all brackets should be placed at the following heights (based on the average patient):

	Maxillary	Mandibular			
Central	4.4 mm	3.9 mm			
Lateral	3.8 mm	3.9 mm			
Cuspid	4.4 mm	4.6 mm			
1st Bicuspid	4.1 mm	3.9 mm			
2nd Bicuspid	3.6 mm	3.9 mm			



**Orthos** (Available in Quad packaging, 10 ea.; single-patient kit)

Tooth	Torque	Ang.	Rot*	Bracket Type		Part N	Part Numbers        .018 R      .022 L      .022 R        454-0110      455-0111      455-0110			
Maxillary					.018 L	.018 R	.022 L	.022 R		
Central	+15°	+5°	0°	Twin	454-0111	454-0110	455-0111	455-0110		
Lateral	+9°	+9°	-4.5°	Twin	454-0211	454-0210	455-0211	455-0210		
Lateral	+9°	+9°	0°	Twin	454-0213	454-0212	455-0213	455-0212		
Cuspid	-3°	$+10^{\circ}$	0°	Twin	454-0311	454-0310	455-0311	455-0310		
Cuspid — hook	-3°	$+10^{\circ}$	0°	Twin	454-1311	454-1310	455-1311	455-1310		
l st Bicuspid	-6°	0°	0°	Twin, G/O	454-0411	454-0410	455-0411	455-0410		
l st Bicuspid – hook	-6°	0°	0°	Twin, G/O	454-1411	454-1410	455-1411	455-1410		
l st Bicuspid	-6°	0°	0°	Twin	454-0413	454-0412	455-0413	455-0412		
l st Bicuspid – hook	-6°	0°	0°	Twin	454-1413	454-1412	455-1413	455-1412		
2nd Bicuspid	-8°	+4°	0°	Twin, G/O	454-0511	454-0510	455-0511	455-0510		
2nd Bicuspid – hook	-8°	+4°	0°	Twin, G/O	454-1511	454-1510	455-1511	455-1510		
2nd Bicuspid	-8°	+4°	0°	Twin	454-0513	454-0512	455-0513	455-0512		
2nd Bicuspid – hook	-8°	+4°	0°	Twin	454-1513	454-1512	455-1513	455-1512		
l st Molar	-10°	0°	۱5°	Accent single	340-5116	340-4116	342-5115	342-4115		
l st Molar – hook	-10°	0°	۱0°	Self-ligating			438-2113	438-2114		
l st Molar – weldable	-10°	0°	۱5°	Peerless .045 combo	195-0210	196-0210	195-0209	196-0209		
2nd Molar	-10°	0°	۱5°	Accent single	340-5116	340-4116	342-5115	342-4115		
2nd Molar – weldable	-10°	0°	۱5°	Accent single	515-0116	5 4-0  6	515-0115	514-0115		

All hooks are distogingival unless otherwise noted.

\*Compensation in slot/distal offset.

### $Orthos^{\!\!\!}{}^{\scriptscriptstyle (cont.)}$

### Orthos

Tooth	Torque	Ang.	Rot*	Bracket Type		Part Numbers			
Mandibular					.018 L	.018 R	.022 L	.022 R	
Central	-5°	+2°	0°	Twin	454-0615	454-0610	455-0615	455-0610	
Lateral	-5°	+4°	0°	Twin	454-0625	454-0620	455-0625	455-0620	
Lateral	-5°	$+4^{\circ}$	-4.5°	Twin	454-0635	454-0630	455-0635	455-0630	
Cuspid	-6°	$+6^{\circ}$	-4.5°	Twin	454-0711	454-0710	455-0711	455-0710	
Cuspid – hook	-6°	$+6^{\circ}$	-4.5°	Twin	454-1711	454-1710	455-1711	455-1710	
l st Bicuspid	-7°	+3°	0°	Twin, G/O	454-0813	454-0812	455-0813	455-0812	
l st Bicuspid – hook	-7°	+3°	0°	Twin, G/O	454-1813	454-1812	455-1813	455-1812	
l st Bicuspid	-7°	+3°	0°	Twin	454-0815	454-0814	455-0815	455-0814	
l st Bicuspid – hook	-7°	+3°	0°	Twin	454-1815	454-1814	455-1815	455-1814	
2nd Bicuspid	-9°	+3°	0°	Twin, G/O	454-0911	454-0910	455-0911	455-0910	
2nd Bicuspid – hook	-9°	+3°	0°	Twin, G/O	454-1911	454-1910	455-1911	455-1910	
2nd Bicuspid	-9°	+3°	0°	Twin	454-0913	454-0912	455-0913	455-0912	
2nd Bicuspid – hook	-9°	+3°	0°	Twin			455-1913	455-1912	
l st Molar	-10°	0°	0°	Accent single	340-5118	340-4118	342-5117	342-4117	
l st Molar – hook	-22°	0°	0°	Self-ligating			438-2111	438-2112	
l st Molar – weldable	-10°	0°	0°	Peerless single	189-0300	190-0300	189-0299	190-0299	
2nd Molar	-10°	0°	5°	Accent single	340-4114	340-5114	342-4113	342-5113	
2nd Molar – weldable	-10°	0°	5°	Accent single	514-0114	515-0114	514-0113	515-0113	

#### Single-Patient Kits

Single-Patient Kit

Upper/Lower 5 – 5, hooks on Cuspids

740-1246

740-1247

All hooks are distogingival unless otherwise noted.

\* Compensation in slot/Distal offset.

### SECTION PAGE 24

### **APPLIANCE SYSTEMS**

### **Bios** System Bringing Orthos<sup>®</sup> Technology To A Light-Wire, High-Torque Prescription



### **Bios Marking System**

- All brackets are color-coded by quadrant: Upper right – Tan, Blue Lower right – Red
   Upper left – Pink, Black Lower left – Yellow
- The dimple or paint mark will be on the distogingival tie-wing, unless otherwise noted.
- Upper and lower 2nd bicuspids have dimples/paint on both gingival tie-wings.
- Upper centrals are wider than upper laterals.
- Lower laterals, cuspids and bicuspids also feature a scribe line on the occlusal tie-wings.
- Because of the specificity of the Bios appliance, there are no universal brackets.
- \* Distributed in Europe as Ortho-CIS.

To achieve the proper expression of the Bios appliance, all brackets should be placed at the following heights (based on the average patient):

	Maxillary	Mandibular			
Central	4.4 mm	3.9 mm			
Lateral	3.8 mm	3.9 mm			
Cuspid	4.4 mm	4.6 mm			
1st Bicuspid	4.1 mm	3.9 mm			
2nd Bicuspid	3.6 mm	3.9 mm			



#### **Bios** (Available in Quad packaging, 10 ea.)

Tooth	Torque	Ang.	Rot*	Rot* Bracket Type		Part Numbers			
Maxillary					.018 L	.018 R	.022 L	.022 R	
Central	+22°	$+5^{\circ}$	0°	Twin	348-6119	348-6118			
Lateral	+   4°	+9°	-4.5°	Twin	348-6219	348-6218			
Cuspid	+7°	$+10^{\circ}$	0°	Twin	348-6319	348-6318			
Cuspid — hook	+7°	$+10^{\circ}$	0°	Twin, M/G hook	348-7319	348-7318			
l st Bicuspid	-6°	0°	0°	Twin			455-0413	455-0412	
l st Bicuspid – hook	-6°	0°	0°	Twin, G/O			455-1411	455-1410	
2nd Bicuspid	-8°	$+4^{\circ}$	0°	Twin, G/O			455-0511	455-0510	
2nd Bicuspid – hook	-8°	+4°	0°	Twin, G/O			455-1511	455-1510	
l st Molar	- I 0°	0°	۱5°	Accent double	340-1240	340-0240	342-1239	342-0239	
l st Molar – weldable	-10°	0°	۱5°	Accent double	521-0238	520-0238	521-0239	520-0239	
2nd Molar	- I 0°	0°	۱5°	Accent single, distal extension	340-5216	340-4216	342-5215	342-4215	
2nd Molar – weldable	-10°	0°	۱5°	Accent single, distal extension	515-0216	5 4-02 6	515-0215	514-0215	

### Bios<sup>®</sup> System (cont.)

### Bios

Tooth	Torque	Ang.	Rot*	Bracket Type		Part Numbers			
Mandibular					.018 L	.018 R	.022 L	.022 R	
Central	-5°	+2°	0°	Twin			455-0615	455-0610	
Lateral	-5°	$+4^{\circ}$	0°	Twin			455-0625	455-0620	
Cuspid	+7°	$+6^{\circ}$	-4.5°	Twin	348-6719	348-6718			
Cuspid – hook	+7°	$+6^{\circ}$	-4.5°	Twin, M/G hook	348-7719	348-7718			
Cuspid – hook	+7°	$+6^{\circ}$	-4.5°	Twin			455-1721	455-1720	
l st Bicuspid	-7°	+3°	0°	Twin, G/O			455-0813	455-0812	
l st Bicuspid – hook	-7°	+3°	0°	Twin, G/O			455-1813	455-1812	
2nd Bicuspid	-17°	+3°	0°	Twin, G/O	348-6917	348-6916			
2nd Bicuspid – hook	-17°	+3°	0°	Twin, G/O	348-7917	348-7916			
2nd Bicuspid	-17°	+3°	0°	Twin	454-0919	454-0918			
2nd Bicuspid – hook	-17°	+3°	0°	Twin	454-1919	454-1918			
l st Molar	-27°	0°	5°	Accent double	340-5132	340-4132	342-1231	342-023 I	
l st Molar – weldable	-27°	0°	5°	Accent double	521-0232	520-0232	521-0231	520-023 I	
2nd Molar	-27°	0°	5°	Accent single, distal extension	340-5232	340-4232	342-523 I	342-4231	
2nd Molar – weldable	-27°	0°	5°	Accent single, distal extension	515-0232	514-0232	515-0231	514-0231	

All hooks are distogingival, unless otherwise noted. \* Compensation in slot/Distal offset.

# Orthos AP

### Orthos AP Marking System

- All brackets are color-coded by quadrant. Upper right – Orange Upper left – White Lower right – Purple Lower left – Green Lower anteriors – Black
- The dimple or paint mark is on the distogingival tie-wing unless otherwise noted.
- Upper and lower 2nd bicuspids have dimples/paint on both gingival tie-wings.
- Upper centrals are wider than upper laterals.
- The lower laterals, cuspids and bicuspids also feature a scribe line on the occlusal tie-wings.

To achieve the proper expression of the Orthos appliance, all brackets should be placed at the following heights (based on the average patient):

MaxillaryCentral4.6 mmLateral3.9 mmCuspid4.7 mm1st Bicuspid4.5 mm2nd Bicuspid3.6 mm

Mandibular 4.0 mm 4.0 mm 4.8 mm 4.0 mm 4.0 mm



#### Orthos AP (Available in Quad packaging, 10 ea.)

Tooth	Torque	Ang.	Rot*	Bracket Type		Part Numbers		
Maxillary					.018 L	.018 R	.022 L	.022 R
Central	$+  ^{\circ}$	$+4^{\circ}$	0°	Twin	348-8111	348-8110	349-8111	349-8110
Lateral	+9°	+6°	-3°	Twin	348-8211	348-8210	349-8211	349-8210
Cuspid – hook	0°	$+8^{\circ}$	-4°	Twin	348-9311	348-9310	349-93	349-9310
l st Bicuspid	-2°	$+4^{\circ}$	0°	Twin, G/O	348-8411	348-8410	349-8411	349-8410
2nd Bicuspid	-3°	$+6^{\circ}$	0°	Twin, G/O	348-8511	348-8510	349-8511	349-8510
Mandibular					.018 L	.018 R	.022 L	.022 R
Anterior	+3°	0°	0°	Twin	348-8620	)/Universal	349-862	0/Universal
Cuspid	-2°	+2°	-6°	Twin	348-8711	348-8710		
Cuspid — hook	-2°	+2°	-6°	Twin	348-9711	348-9710	349-9711	349-9710
l st Bicuspid	-8°	+3°	0°	Twin, G/O	348-8813	348-8812	349-8813	349-8812
2nd Bicuspid	-8°	+6°	0°	Twin, G/O	348-8911	348-8910	349-8911	349-8910

All hooks are distogingival, unless otherwise noted.

\* Compensation in slot.

### Mini Diamond<sup>®</sup> Twin

The Mini Diamond was developed in response to a patient need for a more aesthetic bracket. The Mini Diamond reflects years of research and development. The goal was to improve aesthetics by miniaturizing the bracket with no compromise in function.

Mini Diamonds offer the same benefits in regard to accurate bracket placement as their traditional counterparts plus:

- Improved aesthetics and hygiene with a 30% reduction in overall bracket size.
- Improved patient comfort with enhanced facial contours.
- Improved utility with refined Hemi Hooks<sup>™</sup> and permanent I.D. marking system.
- Confidence in performance. The Mini Diamond is made from a stronger grade of stainless steel than traditional brackets. The result is smaller brackets that don't compromise strength.



Tooth	Torque	Ang.	Bracket Type	MD	In/Out		Part Nu	Imbers	
Maxillary				In mi	llimeters	.018 L	.018 R	.022 L	.022 R
Central	0°	0°	Twin	3.8	0.8	350-0104	1/Universal	351-0104	l/Universal
Central	+7°	+5°	Twin	3.8	0.8	350-0121	350-0120	351-0121	351-0120
Central	+14°	+5°	Twin	3.8	0.8	350-0131	350-0130	351-0131	351-0130
Central	+14°	+5°	Twin	3.4	0.8	350-0171	350-0170	351-0171	351-0170
Central	+22°	+5°	Twin	3.8	0.8	350-0141	350-0140	351-0141	351-0140
Central	+22°	+5°	Twin	3.4	0.8	350-0181	350-0180	351-0181	351-0180
Lateral	0°	0°	Twin	3.1	1.0	350-0204	1/Universal	351-0204/Universal	
Lateral	0°	$+8^{\circ}$	Twin	3.1	1.0	350-0211	350-0210		
Lateral	+3°	$+8^{\circ}$	Twin	3.1	1.0	350-0241	350-0240	351-0241	351-0240
Lateral	+7°	+8°	Twin	3.1	1.0	350-0251	350-0250	351-0251	351-0250
Lateral – hook	+7°	+8°	Twin	3.1	1.0	350-1251	350-1250	351-1251	351-1250
Lateral	+7°	+8°	Twin	2.7	0.8	350-0271	350-0270	351-0271	351-0270
Lateral – hook	+7°	$+8^{\circ}$	Twin	2.7	0.8	350-2271	350-2270		
Lateral	+ 4°	$+8^{\circ}$	Twin	3.1	0.8	350-0231	350-0230	351-0231	351-0230
Lateral	+ 4°	$+8^{\circ}$	Twin	3.1	0.8	350-0261	350-0260	351-0261	351-0260
Lateral	+ 4°	$+8^{\circ}$	Twin	2.7	0.8	350-0281	350-0280	351-0281	351-0280
Cuspid	-7°	$+10^{\circ}$	Twin	3.4	0.5			351-0321	351-0320
Cuspid — hook	-7°	$+10^{\circ}$	Twin	3.4	0.5	350-1321	350-1320	351-1321	351-1320
Cuspid	0°	0°	Twin	3.4	0.5	350-0306	5/Universal		
Cuspid	0°	+10°	Twin	3.4	0.5	350-0331	350-0330	351-0331	351-0330
Cuspid — hook	0°	+10°	Twin	3.4	0.5	350-1331	350-1330	351-1331	351-1330
Cuspid/Bicuspid	0°	+10°	Twin	3.2	0.5	350-0371	350-0370	351-0371	351-0370
Cuspid/Bicuspid – hook	0°	+10°	Twin	3.2	0.5	350-1371	350-1370	351-1371	351-1370
Cuspid All books are distogingival unless of	+7°	+7° ed.	Twin	3.4	0.5	350-0351	350-0350		

### Mini Diamond Twin (Available in Quad packaging, 10 ea.)

### Mini Diamond Twin (cont.)

Tooth	Torque	Ang.	Bracket Type	MD	In/Out	Part Nu		Imbers	
Maxillary				In mil	limeters	.018 L	.018 R	.022 L	.022 R
Cuspid	+7°	+10°	Twin	3.4	0.5	350-0341	350-0340	351-0341	351-0340
Cuspid — hook	+7°	$+10^{\circ}$	Twin	3.4	0.5	350-1341	350-1340		
Cuspid — hook	+7°	$+10^{\circ}$	Twin, M/G hook	3.4	0.5	350-1361	350-1360		
Cuspid/Bicuspid – hook	+7°	$+10^{\circ}$	Twin	3.2	0.5	350-1381	350-1380	351-1381	351-1380
Bicuspid	-7°	0°	Twin	3.2	0.5	350-0514	/Universal	351-0514	1/Universal
Bicuspid	-7°	0°	Twin, G/O	3.2	0.5	350-0534	/Universal	351-0534	1/Universal
Bicuspid – hook	-7°	0°	Twin	3.2	0.5	350-1511	350-1510	351-1511	351-1510
Bicuspid	0°	0°	Twin	3.2	0.5	350-0506	/Universal	351-0506	5/Universal
Bicuspid	0°	0°	Twin, G/O	3.2	0.5	350-0526	/Universal	351-0526	ó/Universal
Mandibular						.018 L	.018 R	.022 L	.022 R
Anterior	-6°	0°	Twin, semi-wedge	2.3	1.2	350-0035	/Universal	351-0035	5/Universal
Anterior	- °	0°	Twin, semi-wedge	2.3	1.2	350-0025	/Universal	351-0025	5/Universal
Anterior	- °	0°	Twin, semi-wedge on mini pad	2.3	1.2	350-0065	/Universal	351-0065	5/Universal
Anterior	0°	0°	Twin, semi-wedge	2.3	1.2	350-0015	/Universal	351-0015	5/Universal
Anterior	$+4^{\circ}$	0°	Twin, semi-wedge	2.3	1.2			351-004	5/Universal
Cuspid	-  °	$+6^{\circ}$	Twin	3.2	0.4	350-0443	350-0442	351-0443	351-0442
Cuspid — hook	-  °	$+6^{\circ}$	Twin	3.2	0.4	350-1443	350-1442	351-1443	351-1442
Cuspid	-7°	$+6^{\circ}$	Twin	3.2	0.4	350-0433	350-0432	351-0433	351-0432
Cuspid — hook	-7°	$+6^{\circ}$	Twin	3.2	0.4	350-1433	350-1432	351-1433	351-1432
Cuspid	0°	$+6^{\circ}$	Twin	3.2	0.4	350-0423	350-0422	351-0423	351-0422
Cuspid — hook	0°	$+6^{\circ}$	Twin	3.2	0.4	350-1423	350-1422	351-1423	351-1422
Cuspid	+7°	$+5^{\circ}$	Twin	3.2	0.4	350-0463	350-0462	351-0463	351-0462
Cuspid — hook	+7°	$+5^{\circ}$	Twin, M/G hook	3.2	0.4	350-1473	350-1472		
l st Bicuspid	-17°	0°	Twin	3.2	0.5	350-0625	/Universal	351-0625	5/Universal
l st Bicuspid – hook	-17°	0°	Twin	3.2	0.5	350-1623	350-1622	351-1623	351-1622
l st Bicuspid	-17°	0°	Twin, G/O	3.2	0.5	350-0645	/Universal	351-0645	5/Universal
l st Bicuspid – hook	-17°	0°	Twin, G/O	3.2	0.5	350-1643	350-1642	351-1643	351-1642
l st Bicuspid	-  °	0°	Twin	3.2	0.5	350-0615	/Universal	351-0615	5/Universal
l st Bicuspid – hook	-  °	0°	Twin	3.2	0.5	350-1613	350-1612	351-1613	351-1612
l st Bicuspid	-  °	0°	Twin, G/O	3.2	0.5	350-0635	/Universal	351-0635	5/Universal
l st Bicuspid – hook	-  °	0°	Twin, G/O	3.2	0.5	350-1633	350-1632	351-1633	351-1632
2nd Bicuspid	-22°	0°	Twin	3.2	0.5	350-0735	/Universal	351-0735	5/Universal
2nd Bicuspid – hook	-22°	0°	Twin	3.2	0.5	350-1733	350-1732	351-1733	351-1732
2nd Bicuspid	-22°	0°	Twin, G/O	3.2	0.5	350-0755	/Universal	351-0755	5/Universal
2nd Bicuspid – hook	-22°	0°	Twin, G/O	3.2	0.5	350-1753	350-1752	351-1753	351-1752
2nd Bicuspid	-17°	0°	Twin	3.2	0.5	350-0725	/Universal	351-0725	5/Universal
2nd Bicuspid – hook	-17°	0°	Twin	3.2	0.5	350-1723	350-1722	351-1723	351-1722
2nd Bicuspid	-17°	0°	Twin, G/O	3.2	0.5	350-0745	/Universal	351-0745	5/Universal
2nd Bicuspid – hook	-17°	0°	Twin, G/O	3.2	0.5	350-1743	350-1742	351-1743	351-1742

All hooks are distogingival unless otherwise noted.

### Mini Diamond<sup>®</sup> (cont.)

#### Mini Diamond Marking System

- Open dimple (•) = Maxillary
- Red dimple (•) = Mandibular
- On Mini Diamond or other angulated assemblies, the dimple is on the distogingival tie-wing (twin) or gingival tie-wing (single).
- On non-angulated assemblies, dimples can be on either gingival tie-wing.
- On lower bicuspids, where torques differ, the 2nd bicuspids have dimples on both gingival tie-wings.
- The lower cuspids and bicuspids also feature a scribe line on the occlusal tie-wings.



### Mini Diamond Vertical Slot (.018 x .018) (Available in Quad packaging, 10 ea.)

Tooth	Torque	Ang.	Bracket Type	M/D	In/Out		Part Numbers			
Maxillary				in mil	limeters	.018 L	.018 R	.022 L	.022 R	
Central	+14°	$+5^{\circ}$	Vertical Slot	3.4	0.8	350-6131	350-6130	351-6131	351-6130	
Lateral	+7°	$+8^{\circ}$	Vertical Slot	2.7	1.1	350-6251	350-6250	351-6251	351-6250	
Cuspid	0°	$+10^{\circ}$	Vertical Slot	3.2	0.6	350-6331	350-6330	351-6331	351-6330	
Cuspid — hook	0°	$+10^{\circ}$	Vertical Slot	3.2	0.6	350-7331	350-7330	351-7331	351-7330	
Bicuspid	-7°	0°	Vertical Slot	3.2	0.6	350-6514	l/Universal	351-6514/Universal		
Bicuspid	-7°	0°	Vertical Slot, G/O	3.2	0.6	350-6534	350-6534/Universal		351-6534/Universal	
Bicuspid	0°	0°	Vertical Slot	3.2	0.6				351-6506/Universal	
Bicuspid	0°	0°	Vertical Slot, G/O	3.2	0.6	350-6536	5/Universal	351-6536/Universal		
Mandibular						.018 L	.018 R	.022 L	.022 R	
Anterior	-   °	0°	Vertical Slot, semi-wedge	2.3	1.3	350-6025	j/Universal	351-6025/Universal		
Cuspid	-7°	$+6^{\circ}$	Vertical Slot	3.2	0.6	350-6433	350-6432	351-6433	351-6432	
Cuspid — hook	-7°	$+6^{\circ}$	Vertical Slot	3.2	0.6	350-7433	350-7432	351-7433	351-7432	
l st Bicuspid	-  °	0°	Vertical Slot	3.2	0.6	350-6615	350-6615/Universal		351-6615/Universal	
l st Bicuspid	-  °	0°	Vertical Slot, G/O	3.2	0.6	350-6635	j/Universal	351-6635	5/Universal	
2nd Bicuspid	-17°	0°	Vertical Slot	3.2	0.6	350-6725	j/Universal	351-6725	j/Universal	
2nd Bicuspid	-17°	0°	Vertical Slot, G/O	3.2	0.6	350-6745	350-6745/Universal		5/Universal	

All hooks are distogingival unless otherwise noted.

# Diamond

Ormco's exclusive line of Diamond<sup>1</sup> brackets is comprised of traditional, industry-standard, full-size Diamond brackets. It was developed over 20 years ago when the importance of accurate bracket placement first became apparent.

The bracket's vertical components give fast, accurate alignment with the crown-long axis, while the horizontal components align to the incisal edge of the tooth. This "crosshair" approach to bracket placement is a result of Ormco's Diamond bracket.

### **Diamond Marking System**

- Open arrowhead (>) = Maxillary
- Red arrowhead (►) = Mandibular
- On Diamond bracket or other angulated assemblies, the arrowhead will be placed on the distogingival tie-wing (twins) or gingival tie-wing (single) pointing to distal.
- On non-angulated assemblies, the arrowhead will be on either gingival tie-wing, pointing to gingival.
- First bicuspid with torque different from 2nd bicuspid, a numeral one (1) is placed on an occlusal tie-wing.



### Diamond Twin Full-Size (Available in Quad packaging, 10 ea.)

Tooth	Torque	Ang.	Bracket Type	Part Numbers			
Maxillary				.018 L	.018 R	.022 L	.022 R
Central	$+14^{\circ}$	$+5^{\circ}$	Twin	347-1121	347-1021	348-1121	348-1021
Lateral	+7°	$+8^{\circ}$	Twin	347-1122	347-1022	348-1122	348-1022
Bicuspid	-7°	0°	Twin, wedge profile	340-1404	/Universal	342-1404	/Universal
Bicuspid – hook	-7°	0°	Twin, wedge profile			342-1108	342-1008

All hooks are distogingival unless otherwise noted. 'U.S. Patent No. 4,415,330

### $Diamond^{\text{\tiny TM}} \ (\text{cont.})$

### Diamond Twin Full-Size

Tooth	Torque	Ang.	Bracket Type		Part N	umbers	
Mandibular				.018 L	.018 R	.022 L	.022 R
Anterior	-   °	0°	Twin, semi-wedge profile	340-1500,	/Universal	342-1500	/Universal
Cuspid	-7°	$+6^{\circ}$	Twin, wedge profile			348-1323	348-1223
Cuspid – hook	-7°	$+6^{\circ}$	Twin, wedge profile			348-1328	348-1228
l st Bicuspid	-17°	0°	Twin, wedge profile	340-1504	/Universal	342-1504	/Universal
l st Bicuspid	-  °	0°	Twin, wedge profile	340-1524	/Universal	342-1524	/Universal
l st Bicuspid – hook	-  °	0°	Twin, wedge profile			342-1318	342-1218
2nd Bicuspid	-22°	0°	Twin, wedge profile	340-1505	/Universal	342-1505	/Universal
2nd Bicuspid	-17°	0°	Twin, wedge profile	340-1515	/Universal	342-1515	/Universal

All hooks are distogingival unless otherwise noted.

### **Tweed** (Available in Quad packaging, 10 ea.)

Tooth	Torque	Ang.	Bracket Type	Part Numbers
Maxillary				.022 L .022 R
Central	0°	0°	Single	342-0411/Universal
Lateral	0°	0°	Single	342-0412/Universal
Cuspid	0°	0°	Single	342-0413/Universal
Bicuspid	0°	0°	Wedge single	342-0414/Universal
Mandibular				.022 L .022 R
Anterior	0°	0°	Wedge single	342-0511/Universal
Cuspid	0°	0°	Wedge single	342-0513/Universal
Bicuspid	0°	0°	Wedge single	342-0514/Universal

# Alexander Signature Line

### Alexander Signature Line Marking System



All brackets are color coded by quadrant Upper right – Blue Upper left – Black Lower right – Red Lower left – Yellow



### Alexander Signature Line (Available in Quad packaging, 10 ea.)

Tooth	Torque	Ang.	Rot*	Bracket Type	Part Nu	umbers
Maxillary					.018 L	.018 R
Central	+   5°	$+5^{\circ}$	0°	Twin	454-0111	454-0110
Lateral – hook	+9°	+9°	-4.5°	Twin	454-1211	454-1210
Cuspid	-3°	$+10^{\circ}$	0°	Flat wing	354-3311	354-3310
l st Bicuspid	-6°	0°	0°	Raised wing, G/O	354-3511	354-3510
2nd Bicuspid	-8°	$+4^{\circ}$	0°	Raised wing, G/O	354-3515	354-3514
l st Molar	-10°	0°	0°	Peerless single	340-2359	340-2259
l st Molar – weldable	-10°	0°	۱5°	Peerless .045 combo	195-0210	196-0210
2nd Molar	-10°	0°	۱5°	Accent Terminal, distal extension	340-5216	340-4216
2nd Molar – weldable	-10°	0°	۱5°	Accent Terminal, distal extension	515-0216	514-0216
Mandibular					.018 L	.018 R
Central	-5°	+2°	0°	Curved wing	354-4073	354-4072
Lateral – hook	-5°	$+6^{\circ}$	0°	Curved wing	354-4063	354-4062
Cuspid	-7°	+6°	0°	Flat wing	354-3343	354-3342
l st Bicuspid	-7°	0°	0°	Raised wing, G/O	354-3615	354-3614
2nd Bicuspid	-9°	0°	0°	Raised wing, G/O	354-3725	354-3724
l st Molar	-10°	0°	0°	Peerless single	340-2356	340-2256
l st Molar – weldable	-10°	-6°	0°	Peerless lip bumper tube	175-0104	176-0104
2nd Molar	0°	0°	5°	Accent Terminal, distal extension	340-4202	340-5202
2nd Molar – weldable	0°	0°	5°	Accent Terminal, distal extension	514-0202	5 5-0202

Dr. Alexander recommends -6° angulation for buccal tube placement on bands. All hooks are distogingival unless otherwise noted.

\* Compensation in slot/Distal offset.
# Mini-Wick System

### **Adjustable Wings**

The unique Wick brackets are designed for the adjustable rotation control you need.

Optimum temper, stronger materials, along with carefully calibrated and positioned rotation wing apertures optimize adjustability. Softer, traditional wings deform too easily to provide the critical rotation control you need.

In a traditional Lewis bracket, rotation wings are designed to function as welding flanges. When this design is brazed to a foil mesh pad, the braze rigidly bonds the rotation wings, preventing adjustment. Wick brackets combine the security of a brazed foil mesh appliance with the utility of an adjustable rotation wing.





Wick Maxillary Cuspid

Wick Maxillary Bicuspid



## Mini-Wick Marking System

- Open dimple (°) = Maxillary
- Red dimple (•) = Mandibular
- In order to provide left/right identification, all left Mini-Wick cuspids have a Black (maxillary) or a Red (mandibular) mark on the distal rotation wing (only left assemblies feature a distal mark).
- Mini-Wick lower 2nd bicuspids have Red dimples on both gingival and occlusal tie-wings.
- The angulated lower laterals have an arrowhead on the gingival tie-wing that points to distal.
- The lower cuspids and bicuspids also feature a scribe line on the occlusal tie-wings.



### Mini Diamond Mini-Wick (Available in Quad packaging, 10 ea.)

Tooth	Torque Ang.	Bracket Type	Part Numbers			
Maxillary			.018 L	.018 R	.022 L	.022 R
Central	$+14^{\circ}$ $+5^{\circ}$	Twin	350-0131	350-0130	351-0131	351-0130
Lateral – hook	$+7^{\circ}$ $+8^{\circ}$	Twin	350-1251	350-1250	351-1251	351-1250

# The Straight-Wire® Appliances...

## The Family Of A Proven Clinical System

When Dr. Larry Andrews coined the name "Straight-Wire" in 1970, he created what was to become perhaps the most commonly used phrase in contemporary orthodontics.
Unfortunately, it has also become the most commonly misused phrase in contemporary orthodontics. Every manufacturer says that they have a "straight wire" appliance system, regardless of prescription or appliance specifications.

Straight-Wire<sup>®</sup> is a family of truly interchangeable, malocclusion-specific appliances that are designed to empower you to achieve your clinical goals as efficiently and effectively as possible. It is the only system founded in the principles first espoused by Dr. Andrews in his groundbreaking article, "The Six Keys to Normal (Optimal) Occlusion." There is only one Straight-Wire. It's the Straight-Wire System, available exclusively from Ormco.

Straight-Wire Appliances are all founded in the original principles of Dr. Andrews. That means that any A<sup>+</sup> Straight-Wire Appliance is built upon three key Andrews principles: compound bracket contours, torque-in-base and level slot lineup. These design principles are interrelated and fundamental to the requirements of any Straight-Wire Appliance. And since all Straight-Wire Appliances share these principles, they are fully interchangeable.

**Compound Contour** design mirrors both the mesiodistal and the occlusogingival anatomy of the middle third of every tooth's clinical crown. This allows every Straight-Wire Appliance to fit snugly on the tooth for maximum efficiency. Compound contours greatly enhance accurate bracket placement on the center of the crown. **Torque-In-Base** is the key to uniformity of Straight-Wire bracket placement, ensuring high levels of predictability and accuracy in result. With every Straight-Wire Appliance, the center of the slot and the center of the base are always on the same plane for consistent and easy bracket placement.





**Level Slot Lineup** is the end result of compound contours, torque-in-base and accurate bracket placement. The Straight-Wire Appliance is the only appliance that assures you that the slot of the bracket will always be parallel to the occlusal plane of the arch.

Fully Programmed SWA Genuine Straight-Wire Appliance brackets are fully programmed so that each tooth's bracket slot lines up horizontally with all others to eliminate the need for time-consuming wire bends.

Partially Programmed Appliance Even when attempts are made to align the slots of partially programmed brackets horizontally, the bracket heights vary from anterior to posterior, resulting in inconsistent and unpredictable torque and in/out compensation.



# Straight-Wire Synthesis

## Traditional Straight-Wire Features

**Compound Contour for Snug Fit** – Each Synthesis bracket is designed with tooth-specific contours in the base. These contours mirror the anatomy of the middle third of each tooth to ensure accurate placement and snug fit.

**Torque-in-Base for Accurate Placement** – With the Synthesis appliance, the center of the slot and the center of the base are always on the same plane. Torque-in-the-base ensures consistent, reliable placement and makes level slot lineup possible.

**Level Slot Lineup for Less Wire Bending** – With the Synthesis appliance, the slot of the bracket will always be parallel to the occlusal plane of the arch, eliminating time-consuming wire bends.

## Proven Enhancements

Rhomboid Design for Easier Placement – The rhomboid bracket and pad design, incorporated throughout the Synthesis System, provides numerous references for easier bracket placement. The horizontal aspects align parallel to the occlusal plane and the vertical aspects align parallel to the crown-long axis of each tooth. These visual cues make bracket placement more precise.

**Optimesh**<sup>®</sup> **XRT for Improved Bond Retention** – Optimesh XRT is a feature in all Synthesis brackets. It's a treated 100-gauge mesh that creates additional undercuts and is proven to increase bond strengths up to 35%.

Functionality with Aesthetics – Synthesis is specifically engineered to combine the rotational control of the Straight-Wire<sup>™</sup> appliance with the aesthetics of the Mini-Twin<sup>™</sup> in applicable brackets.

## Straight-Wire Synthesis Marking System

For your convenience and ease-of-use, we have maintained the traditional Straight-Wire color identification on the distogingival tie-wing and the letter marking on the bracket.



	Central	Lateral	Cuspid	lst Bicuspid	2nd Bicuspid
Upper	Blue	Pink	Green	Purple	Purple
Roth*	D/G dot, "X"	D/G dot, "Y"	D/G dot, "H"	D/G dot, "J"	D/G dot, "J"
Lower	Yellow	Yellow	Light Blue	White	Red
Roth	No mark	No mark	D/G dot, "H"	D/G dot, "J"	D/G dot, "K"

\* Does not imply endorsement by doctor.

## Straight-Wire Synthesis (cont.)

## Straight-Wire Synthesis (Available in Quad packaging, 10 ea.)

Tooth	Inclin.	Ang.	Rot.	Bracket Type		Part Numbers		
Maxillary					.018 L	.018 R	.022 L	.022 R
Central	+7°	$+5^{\circ}$	0°	Twin	338-0121	338-0120	339-0121	339-0120
Central	+12°	$+5^{\circ}$	0°	Twin	338-0111	338-0110	339-0111	339-0110
Central	+17°	+5°	0°	Twin	338-0141	338-0140	339-0141	339-0140
Lateral	+3°	+9°	0°	Twin	338-0221	338-0220	339-0221	339-0220
Lateral	+8°	+9°	0°	Twin	338-0211	338-0210	339-0211	339-0210
Lateral	+10°	+9°	0°	Twin	338-0241	338-0240	339-0241	339-0240
Cuspid — hook	+3°	+9°	+4°	Twin	338-1341	338-1340	339-1341	339-1340
Cuspid — hook	-2°	+9°	+4°	Twin	338-1351	338-1350	339-1351	339-1350
Cuspid	-2°	+ 3°	+4°	Twin	338-0311	338-0310	339-0311	339-0310
Cuspid — hook	-2°	+ 3°	$+4^{\circ}$	Twin	338-1311	338-1310	339-1311	339-1310
Cuspid	-7°	+  °	0°	Twin			339-0321	339-0320
Cuspid — hook	-7°	+  °	0°	Twin	338-1321	338-1320	339-1321	339-1320
Bicuspid	-7°	0°	+2°	Twin, G/O	338-0511	338-0510	339-0511	339-0510
Bicuspid – hook	-7°	0°	+2°	Twin, G/O	338-1511	338-1510	339-1511	339-1510
Bicuspid	-7°	0°	+2°	Twin	338-053 I	338-0530	339-053 I	339-0530
Bicuspid – hook	-7°	0°	+2°	Twin	338-1531	338-1530	339-1531	339-1530
Bicuspid – hook	-7°	0°	+2°	Twin, M/G hook	338-2531	338-2530	339-2531	339-2530
Bicuspid – hook	-7°	0°	+2°	Twin, G/O, M/G hook	338-2511	338-2510	339-2511	339-2510
Bicuspid	-7°	+2°	0°	Twin, G/O	338-0521	338-0520	339-0521	339-0520
Bicuspid	-7°	+2°	0°	Twin			339-0541	339-0540
Bicuspid – hook	-7°	+2°	0°	Twin	338-2543	338-2542	339-2543	339-2542
Bicuspid – hook	-7°	+2°	0°	Twin, G/O	338-2523	338-2522	339-2523	339-2522
Bicuspid – hook	-7°	+2°	0°	Twin, M/G hook			339-2541	339-2540
Bicuspid – hook	-7°	+2°	0°	Twin, G/O, M/G hook	338-2521	338-2520	339-2521	339-2520

## Straight-Wire Synthesis (cont.)

## Straight-Wire Synthesis

Tooth	Inclin.	Ang.	Rot.	Bracket Type		Part Numbers		
Mandibular					.018 L	.018 R	.022 L	.022 R
Anterior	- I °	+2°	0°	Twin	338-0011	338-0010	339-0011	339-0010
Anterior	-6°	+2°	0°	Twin	338-0021	338-0020	339-0021	339-0020
Cuspid	-  °	$+5^{\circ}$	0°	Twin			339-0421	339-0420
Cuspid — hook	-  °	$+5^{\circ}$	0°	Twin	338-1421	338-1420	339-1421	339-1420
Cuspid	-  °	+7°	+2°	Twin	338-0411	338-0410	339-0411	339-0410
Cuspid – hook	-  °	+7°	+2°	Twin	338-1411	338-1410	339-1411	339-1410
l st Bicuspid	-17°	-   °	+4°	Twin, G/O	338-0611	338-0610	339-0611	339-0610
l st Bicuspid	-17°	-   °	+4°	Twin	338-0631	338-0630	339-063 I	339-0630
l st Bicuspid – hook	-17°	-   °	+4°	Twin, G/O	338-1611	338-1610	339-1611	339-1610
l st Bicuspid – hook	-17°	-   °	+4°	Twin	338-1631	338-1630	339-1631	339-1630
l st Bicuspid	-17°	+2°	0°	Twin, G/O			339-0621	339-0620
l st Bicuspid	-17°	+2°	0°	Twin			339-0641	339-0640
l st Bicuspid – hook	-17°	+2°	0°	Twin, G/O, M/G hook	338-2621	338-2620	339-2621	339-2620
l st Bicuspid – hook	-17°	+2°	0°	Twin, M/G hook			339-2641	339-2640
l st Bicuspid – hook	-17°	+2°	0°	Twin, D/G hook			339-2643	339-2642
l st Bicuspid – hook	-17°	+2°	0°	Twin, G/O, D/G hook	338-2623	338-2622	339-2623	339-2622
2nd Bicuspid	-22°	-   °	+4°	Twin, G/O	338-0711	338-0710	339-0711	339-0710
2nd Bicuspid	-22°	-   °	+4°	Twin	338-0731	338-0730	339-073 I	339-0730
2nd Bicuspid – hook	-22°	-   °	+4°	Twin			339-1731	339-1730
2nd Bicuspid – hook	-22°	-   °	+4°	Twin, G/O			339-1711	339-1710
2nd Bicuspid	-22°	+2°	0°	Twin, G/O			339-0721	339-0720
2nd Bicuspid	-22°	+2°	0°	Twin			339-0741	339-0740
2nd Bicuspid – hook	-22°	+2°	0°	Twin			339-2743	339-2742
2nd Bicuspid – hook	-22°	+2°	0°	Twin, G/O	338-2723	338-2722	339-2723	339-2722
2nd Bicuspid – hook	-22°	+2°	0°	Twin, M/G hook			339-2741	339-2740
2nd Bicuspid – hook	-22°	+2°	0°	Twin, G/O, M/G hook	338-2721	338-2720	339-2721	339-2720

All hooks are distogingival unless otherwise noted.

\*See your Ormco representative about bondable molar tube options.

## **Complementary Products**

See various sections of this catalog for the following products that complement Synthesis brackets.

- Standard High-Retention Bands
- Micro Weldable Buccal Tubes
- Archwires in the Tru-Arch Arch Form (Stainless Steel, Align SE 200 and Copper Ni-Ti)

# Mini-Twin<sup>®</sup>



The Mini-Twin brings a rhomboid design to a Straight-Wire appliance system. Thirty percent smaller than a standard Twin, the Mini-Twin is designed to give you the control you demand in an appliance that is more esthetic and comfortable for your patients.

- Mini-Twin appliances feature Ultra-Lock high-retention pads on both upper and lower bicuspids, providing increased bonding surface and minimizing bond failure.
- The vertical scribe line aligns precisely with the crown-long axis, simplifying accurate bracket placement. As is the case with all Straight-Wire Appliances, the archwire slot of Mini-Twin appliances is engineered to align with the horizontal axis of the tooth.
- Mini-Twins are available in Andrews and Roth\* prescriptions, and are fully interchangeable with any other Straight-Wire Appliance system. Options include hooks/no hooks, gingival offsets on bicuspids, super torque on upper anteriors and surgical sets.

### Mini-Twin Marking System

Each Mini-Twin bracket has a color ID system that is coordinated with the other A<sup>+</sup> mesh products. The color ID is on the distogingival tie-wing, so that bracket identification is easy. For added accuracy, the upper brackets have a cast dot ID and all brackets have cast letters in the saddle of the bracket identifying the tooth position.



	Central	Lateral	Cuspid	lst Bicuspid	2nd Bicuspid
Upper	Blue	Pink	Green	Purple	Purple
Andrews	D/G dot, "A"	D/G dot, "B"	D/G dot, "C"	D/G dot, "D"	D/G dot, "D"
Roth*	D/G dot, "X"	D/G dot, "Y"	D/G dot, "H"	D/G dot, "J"	D/G dot, "J"
Super Torque	D/G dot, "L"	D/G dot, "O"	D/G dot, "N"		
Surgical Set			D/G dot, "S"		
Lower	Yellow	Yellow	Light Blue	White	Red
Andrews	No mark	No mark	D/G dot,"C"	D/G dot,"D"	D/G dot, "E"
Roth	No mark	No mark	D/G dot, "H"	D/G dot, "J"	D/G dot, "K"

\* Does not imply endorsement by doctor.

## $\textbf{Mini-Twin}^{\text{\tiny TW}} \ (\text{cont.})$

## Mini-Twin (Available in Quad packaging, 10 ea.)

Tooth	Torque	Ang.	Rot.	Bracket Type		Part Numbers		
Maxillary					.018 L	.018 R	.022 L	.022 R
Central	+17°	$+5^{\circ}$	0°	Twin	328-0141	328-0140	329-0141	329-0140
Central	+   2°	$+5^{\circ}$	0°	Twin	328-0111	328-0110	329-0111	329-0110
Central	+7°	+5°	0°	Twin	328-0121	328-0120	329-0121	329-0120
Lateral	+3°	+9°	0°	Twin	328-0221	328-0220	329-0221	329-0220
Lateral	$+8^{\circ}$	+9°	0°	Twin	328-0211	328-0210	329-0211	329-0210
Lateral	+10°	+9°	0°	Twin	328-0241	328-0240	329-0241	329-0240
Lateral – hook	+3°	+9°	0°	Twin	328-1221	328-1220		
Cuspid	-7°	+  °	0°	Twin	328-0321	328-0320	329-0321	329-0320
Cuspid	-2°	+9°	4°	Twin			329-0351	329-0350
Cuspid	-2°	+13°	4°	Twin			329-0313	329-0312
Cuspid — hook	-7°	+  °	0°	Twin	328-1321	328-1320	329-1321	329-1320
Cuspid – hook	-2°	+9°	4°	Twin	328-1351	328-1350	329-1351	329-1350
Cuspid — hook	-2°	0°	4°	Twin	328-1317	328-1316		
Cuspid – hook	-2°	+13°	4°	Twin, long radius			329-1311	329-1310
Cuspid — hook	-2°	+13°	4°	Twin	328-1313	328-1312	329-1313	329-1312
Cuspid — hook	0°	+6°	0°	Twin	328-1331	328-1330	329-1331	329-1330
Cuspid — hook	+3°	+9°	4°	Twin			329-1341	329-1340
Bicuspid	-7°	0°	2°	Twin	428-0511	428-0510	429-0511	429-0510
Bicuspid	-7°	0°	0°	Twin	428-0521	428-0520	429-0521	429-0520
Bicuspid	-7°	0°	0°	Twin, G/O	428-0571	428-0570	429-057 I	429-0570
Bicuspid	-7°	0°	2°	Twin, G/O	428-0575	428-0574	429-0575	429-0574
Bicuspid – hook	-7°	0°	2°	Twin	428-1511	428-1510	429-1511	429-1510
Bicuspid – hook	-7°	0°	0°	Twin	428-1521	428-1520	429-1521	429-1520
Bicuspid – hook	-7°	0°	0°	Twin, G/O	428-1571	428-1570	429-1571	429-1570
Bicuspid – hook	-7°	0°	2°	Twin, G/O			429-1573	429-1572
Bicuspid – hook	-7°	0°	2°	Twin, M/G hook			429-2511	429-2510
Bicuspid – hook	-7°	0°	0°	Twin, M/G hook	428-2521	428-2520		

## $\textbf{Mini-Twin}^{\text{\tiny M}} \hspace{0.1 in} (\text{cont.})$

## Mini-Twin

Tooth	Torque	Ang.	Rot.	Bracket Type		Part Numbers		
Mandibular					.018 L	.018 R	.022 L	.022 R
Anterior	-   °	0°	0°	Twin	328-0021	328-0020	329-002 I	329-0020
Anterior – hook	- I °	0°	0°	Twin	328-1021	328-1020		
Cuspid	-  °	+5°	0°	Twin	328-0421	328-0420	329-0421	329-0420
Cuspid	-  °	+7°	2°	Twin			329-0411	329-0410
Cuspid — hook	-  °	+5°	0°	Twin	328-1421	328-1420	329-1421	329-1420
Cuspid — hook	-  °	+7°	2°	Twin	328-1411	328-1410	329-1411	329-1410
Cuspid — hook	0°	+5°	0°	Twin	328-1431	328-1430	329-1431	329-1430
l st Bicuspid	-17°	0°	4°	Twin	428-0611	428-0610	429-0611	429-0610
l st Bicuspid	-17°	0°	0°	Twin	428-0621	428-0620	429-0621	429-0620
l st Bicuspid	-17°	0°	0°	Twin, G/O	428-0671	428-0672	429-0671	429-0674
l st Bicuspid	-17°	0°	4°	Twin, G/O			429-0673	429-0672
l st Bicuspid – hook	-17°	0°	4°	Twin	428-1611	428-1610	429-1611	429-1610
l st Bicuspid – hook	-17°	0°	0°	Twin	428-1621	428-1620	429-1621	429-1620
l st Bicuspid – hook	-17°	0°	0°	Twin, G/O			429-1671	429-1670
l st Bicuspid – hook	-17°	0°	4°	Twin, G/O	428-1673	428-1672	429-1673	429-1672
2nd Bicuspid	-22°	0°	4°	Twin	428-0711	428-0710	429-0711	429-0710
2nd Bicuspid	-22°	0°	0°	Twin	428-0721	428-0720	429-0721	429-0720
2nd Bicuspid	-22°	0°	4°	Twin, G/O	428-0771	428-0770	429-077 I	429-0770
2nd Bicuspid	-22°	0°	0°	Twin, G/O	428-0773	428-0772	429-0773	429-0772
2nd Bicuspid – hook	-22°	0°	4°	Twin	428-1711	428-1710	429-1711	429-1710
2nd Bicuspid – hook	-22°	0°	0°	Twin	428-1721	428-1720	429-1721	429-1720
2nd Bicuspid – hook	-22°	0°	0°	Twin, G/O			429-1771	429-1770
2nd Bicuspid – hook	-22°	0°	4°	Twin, G/O			429-1773	429-1772

# Mini-Twin VS

Each Mini-Twin bracket has a coordinated color ID system with the other Straight-Wire<sup>®</sup> mesh products. The color ID is on the disto-gingival tie-wing, so that bracket identification is easy. For added accuracy the upper brackets have a cast dot ID. The vertical slot is an .018 x .018 dimension.

## Mini-Twin Vertical Slot Marking System



	Central	Lateral	Cuspid	Ist Bicuspid	2nd Bicuspid
Upper	Blue	Pink	Green	Purple	Purple
Roth*	D/G dot	D/G dot	D/G dot	D/G dot	D/G dot
Bi-dimensional	D/G dot	D/G dot, M/G	D/G dot, M/O	D/G dot, D/O	D/G dot, D/O
Lower	Yellow	Yellow	Light Blue	White	Red
Roth	D/G dash	D/G dash	D/G dash, M/G	D/G dash, O/M	D/G dash, D/O
Bi-dimensional	D/G dash	D/G dash	D/G dash, M/G	D/G dash, O/M	D/G dash, D/O

\* Does not imply endorsement by doctor.

## Mini-Twin Vertical Slot (Available in Quad packaging, 10 ea.)

Tooth	Torque	Ang.	Rot.	Bracket Type		Part N	umbers	
Maxillary					.018 L	.018 R	.022 L	.022 R
Central	+12°	$+5^{\circ}$	0°	Twin	318-0111	318-0110	319-0111	319-0110
Lateral	+8°	+9°	0°	Twin	318-0211	318-0210	319-0211	319-0210
Cuspid	-2°	+ 3°	4°	Twin			319-0311	319-0310
Cuspid — hook	-2°	+13°	4°	Twin	318-1311	318-1310	319-1311	319-1310
Cuspid — hook	-2°	+9°	4°	Twin, large radius	318-1351	318-1350		
Bicuspid	-7°	0°	2°	Twin	492-0511	492-0510	493-0511	493-0510
Bicuspid – hook	-7°	0°	2°	Twin			493-1511	493-1510
Mandibular					.018 L	.018 R	.022 L	.022 R
Anterior	-   °	+2°	0°	Twin	318-0021	318-0020	319-0021	319-0020
Cuspid	-  °	+7°	2°	Twin			319-0411	319-0410
Cuspid — hook	-  °	+7°	2°	Twin	318-1411	318-1410	319-1411	319-1410
l st Bicuspid	-17°	-   °	4°	Twin			493-0611	493-0610
l st Bicuspid – hook	-17°	-   °	4°	Twin			493-1611	493-1610
2nd Bicuspid	-22°	- °	4°	Twin			493-0711	493-0710
2nd Bicuspid – hook	-22°	-   °	4°	Twin	492-1711	492-1710	493-1711	493-1710

## **Twin**

The Andrews Straight-Wire System is the heritage of "A" Company. The "A" in "A" Company is because of Dr. Larry Andrews and his vision so many years ago. The full-size Twin bracket is the original Straight-Wire Appliance (SWA). These brackets remain unsurpassed in their ability to treat reliably and consistently to the standards that were established by Dr. Andrews. These standards were built on the foundation of orthodontic scientific research.



## Twin Marking System

	Central	Lateral	Cuspid	lst Bicuspid	2nd Bicuspid
Upper	Blue	Pink	Green	Purple	Purple
Andrews	D/G dot	D/G dot	D/G dot	D/G dot	D/G dot
TI PA				D/G dot, I notch	D/G dot, I notch, $+$ on M/G
T2 PA			D/G dot, 2 notches	D/G dot, 2 notches	D/G dot, 2 notches, + on M/G
T3 PA			D/G dot, 3 notches		
Roth* Set I	D/G dot, 3 notches	D/G dot, 3 notches	D/G dot	D/G dot, $+$ on M/G, I notch	D/G dot, + on M/G, I notch
Anterior Set II	D/G dot, 2 notches	D/G dot, 2 notches			
Anterior Set III	D/G dot, 3 notches	D/G dot, 3 notches			
Lower	Yellow	Yellow	Light Blue	White	Red
Andrews	D/G dash	D/G dash	D/G dash	D/G dash	D/G dash
TI PA			D/G dash, I notch	D/G dash, I notch	D/G dash, I notch
T2 PA			D/G dash, 2 notches	D/G dash, 2 notches	D/G dash, 2 notches
T3 PA			D/G dash, 3 notches		D/G dash, 3 notches
Roth Set I	D/G dash	D/G dash	D/G dash, I notch	D/G dash	D/G dash, + on M/G
Anterior Set II	D/G dash, 2 notches	D/G dash, 2 notches			
Anterior Set III	D/G dash, 3 notches	D/G dash, 3 notches			

\* Does not imply endorsement by doctor.

### Twin (Available in Quad packaging, 10 ea.)

Tooth	Torque	Ang.	Rot.	Bracket Type		Part N	umbers	
Maxillary					.018 L	.018 R	.022 L	.022 R
Central	+7°	$+5^{\circ}$	0°	Twin, Set I			364-1037	364-1032
Central	+12°	+5°	0°	Twin, Set III			364-1038	364-1033
Central	+17°	+5°	0°	Twin			364-1041	364-1036
Lateral	+3°	+9°	0°	Twin			364-1042	364-1026
Lateral	$+8^{\circ}$	+9°	0°	Twin			364-1043	364-1027
Lateral	$+10^{\circ}$	+9°	0°	Twin			364-1046	364-1030
Cuspid	-7°	+  °	0°	Twin			364-1048	364-1000
Cuspid	-2°	+13°	4°	Twin			364-1053	364-1005

## Twin (cont.)

Tooth	Torque	Ang.	Rot.	Bracket Type	Part N	umbers
Maxillary					.022 L	.022 R
Cuspid – PA	-7°	+14°	4°	Twin T2, power arm	364-1068	364-1020
Cuspid – hook	-7°	+  °	0°	Twin	364-1054	364-1006
Cuspid — hook	-2°	+13°	4°	Twin	364-1065	364-1017
Bicuspid – hook	-7°	0°	2°	Twin, M/G hook	464-1096	464-1087
Bicuspid	-7°	0°	2°	Twin	464-1093	464-1083
Bicuspid	-7°	+2°	0°	Twin	464-1020	464-1000
Bicuspid – hook	-7°	+2°	0°	Twin	464-1024	464-1001
Bicuspid	-7°	+2°	0°	Twin, G/O	464-1026	464-1004
l st Bicuspid – PA	-7°	+5°	4°	Twin T2, power arm	464-1017	464-1013
2nd Bicuspid – PA	-7°	-   °	4°	Twin T2, M/G power arm	464-1125	464-1002
Mandibular					.022 L	.022 R
Anterior	-6°	+2°	0°	Twin, Set III	364-1111	364-1108
Anterior	-   °	+2°	0°	Twin, Set I	364-1251	364-1106
Anterior	-   °	0°	0°	Twin	364-1110	364-1107
Cuspid	-  °	+5°	0°	Twin	364-1074	364-1090
Cuspid	-  °	+7°	2°	Twin	364-1075	364-1091
Cuspid — hook	-  °	+7°	2°	Twin	364-1081	364-1097
Cuspid – PA	-  °	+8°	4°	Twin T2, power arm	364-1088	364-1104
Cuspid — hook	-  °	+5°	0°	Twin	364-1080	364-1096
l st Bicuspid	-17°	-   °	4°	Twin	464-1044	464-1057
l st Bicuspid	-17°	+2°	0°	Twin	464-1041	464-1054
l st Bicuspid – PA	-17°	+5°	4°	Twin T2, power arm	464-1049	464-1063
l st Bicuspid – hook	-17°	-   °	4°	Twin	464-1047	464-1061
l st Bicuspid – hook	-17°	+2°	0°	Twin	464-1046	464-1059
2nd Bicuspid	-22°	+2°	0°	Twin	464-1028	464-1068
2nd Bicuspid	-22°	- °	4°	Twin	464-1031	464-1071
2nd Bicuspid – hook	-22°	+2°	0°	Twin	464-1033	464-1073
2nd Bicuspid – hook	-22°	-   °	4°	Twin	464-1034	464-1074
2nd Bicuspid – PA	-22°	-   °	4°	Twin T2, M/G power arm	464-1036	464-1076



Attract is the single-wing appliance option that is 100% Straight-Wire. Like all Straight-Wire Appliances (SWA), Attract brackets are compatible with all other SWA bracket types. Due to their smaller size – 40% smaller than a conventional twin – and single-wing design, Attract is both a perfect aesthetic option for adults and an ideal clinical option for pedo patients. You'll get twin-type performance combined with the clinical features you prefer. And it's all built into a comfortable bracket with rolled and radiused surfaces that support excellent hygiene.



### **Attract Marking System**



	Central	Lateral	Cuspid	lst Bicuspid	2nd Bicuspid
Upper	Blue	Pink	Green	Purple	Purple
Andrews	D/G dot, M/G "A"	D/G dot, M/G "B"	D/G dot, M/G "C"	D/G dot, M/D "D"	D/G dot, M/D "D"
Roth*	D/G dot, M/G "X"	D/G dot, M/G "Y"	D/G dot, M/G "H"	D/G dot, M/G "J"	D/G dot, M/G "J"
Super Torque	D/G dot, M/G "L"	D/G dot, M/G "M"	D/G dot, M/G "N"		
Lower	Yellow	Yellow	Light Blue	White	Red
Andrews	D/G <,M/G "A"	D/G <, M/G "A"	D/G <, M/G "C"	D/G <, M/G "D"	D/G <, M/G "E"
Roth	D/G <,M/G "A"	D/G <, M/G "A"	D/G <, M/G "H"	D/G <, M/G "J"	D/G <, M/G "K"

\* Does not imply endorsement by doctor.

## Attract<sup>™</sup> (cont.)

### Attract (Available in Quad packaging, 10 ea.)

Tooth	Torque	Ang.	Rot.	Bracket Type		Part Nu	Imbers	
Maxillary					.018 L	.018 R	.022 L	.022 R
Central	+7°	$+5^{\circ}$	0°	Single			364-7016	364-7012
Central	+ I 7°	$+5^{\circ}$	0°	Single			364-7017	364-7013
Central	+ I 2°	$+5^{\circ}$	0°	Single	363-7017	363-7014	364-7018	364-7014
Lateral	+3°	+9°	0°	Single			364-7020	364-7007
Lateral	$+10^{\circ}$	+9°	0°	Single			364-7021	364-7008
Lateral	+8°	+9°	0°	Single	363-7020	363-7010	364-7022	364-7009
Cuspid	-7°	+  °	0°	Single			364-7025	364-7000
Cuspid	+3°	+9°	4°	Single			364-7027	364-7002
Cuspid – hook	+3°	+9°	4°	Single			364-7028	364-7003
Cuspid – hook	-7°	+  °	0°	Single			364-7029	364-7004
Cuspid – hook	-2°	+ 3°	4°	Single	363-7027	363-7006	364-7030	364-7005
Bicuspid	-7°	+2°	0°	Single	363-7066	363-7067	364-7032	364-7088
Bicuspid	-7°	0°	2°	Single	363-7069	363-707 I	364-7033	364-7092
Bicuspid – hook	-7°	+2°	0°	Single	363-7058	363-7060	364-7034	364-7099
Bicuspid – hook	-7°	0°	2°	Single	363-7062	363-7064	364-7035	364-7104
Mandibular					.018 L	.018 R	.022 L	.022 R
Anterior	-   °	+2°	0°	Single	363-7000	363-7077	364-7062	364-7060
Cuspid	-  °	$+5^{\circ}$	0°	Single			364-7044	364-7048
Cuspid	-  °	+7°	2°	Single	363-7039	363-7045		
Cuspid – hook	-  °	$+5^{\circ}$	0°	Single			364-7046	364-7050
Cuspid – hook	-  °	+7°	2°	Single	363-7041	363-7047	364-7047	364-7051
l st Bicuspid	-17°	+2°	0°	Single			364-7040	364-7052
l st Bicuspid	-17°	-   °	4°	Single			364-7041	364-7053
l st Bicuspid – hook	-17°	+2°	0°	Single			364-7042	364-7054
l st Bicuspid – hook	-17°	-   °	4°	Single	363-7036	363-7052	364-7043	364-7055
2nd Bicuspid	-22°	+2°	0°	Single			364-7036	364-7056
2nd Bicuspid	-22°	-   °	4°	Single			364-7037	364-7057
2nd Bicuspid – hook	-22°	+2°	0°	Single			364-7038	364-7058
2nd Bicuspid – hook	-22°	- °	4°	Single	363-7032	363-7056	364-7039	364-7059

### SECTION | PAGE 47

# **InspireICE**<sup>™</sup>

## The Clear Choice for Performance in Aesthetics

Inspire ICE clear brackets are an invaluable product for orthodontists who want an aesthetic solution for their practices, one that will deliver superb results for patients in need of mild, moderate or significant tooth movement and unprecedented treatment control. Inspire ICE features crystal-clear monocrystalline sapphire brackets that are virtually invisible – regardless of the patient's tooth shade.

- Inspire ICE bracket dimensions are nearly identical to metal with excellent reliability and fracture resistance.
- Maximum tie-wing strength and advanced heattreatment technology means Inspire ICE brackets are twice as resistant to breakage as other ceramic appliances and torque strength is nearly 3 times that of the leading competitor.
- Easy to debond Ormco's patented ball-base technology reduces required debonding force.
- Excellent sliding mechanics Ultra-smooth heat polished surface dramatically reduces friction.
- Smooth and comfortable The lowest profile of any ceramic bracket, smooth surface and rounded contours.
- Fast, accurate placement Rhomboid shape and tooth-specific pad contours plus unique Face Paint<sup>™</sup> system for bracket-to-tooth contrast provide fast and accurate bracket placement.

As a pure Straight-Wire® Appliance and a true twin bracket, Inspire ICE may be combined with any other Straight-Wire bracket within the arch without compromising treatment. Inspire ICE Debonding Kit 803-0205 Inspire ICE Debonding Plier 866-4020

## Inspire ICE (Available in Quad packaging, 10 ea.; 5 ea.; single-patient kit)

Tooth	Torque	Ang.	Rot.	Bracket Type		Part N	umbers	
Maxillary					.018 L	.018 R	.022 L	.022 R
Central	$+12^{\circ}$	$+5^{\circ}$	0°	Twin	443-0111	443-0110	444-0111	444-0110
Lateral	$+8^{\circ}$	+9°	0°	Twin	443-0211	443-0210	444-0211	444-0210
Cuspid	-2°	+ 3°	4°	Twin	443-0311	443-0310	444-0311	444-0310
Cuspid – hook	-2°	+ 3°	4°	Twin	443-1311	443-1310	444- 3	444-1310
Bicuspid	-7°	0°	2°	Twin	443-0511	443-0510	444-0511	444-0510
Bicuspid – hook	-7°	0°	2°	Twin	443-1511	443-1510	444-1511	444-1510
Mandibular					.018 L	.018 R	.022 L	.022 R
Anterior	-   °	0°	0°	Twin	443-0011	/Universal	444-0011	/Universal
Cuspid	-  °	+7°	2°	Twin	443-0411	443-0410	444-0411	444-0410
Cuspid – hook	-  °	+7°	2°	Twin	443-1411	443-1410	444- 4	444-1410
l st Bicuspid	-17°	-   °	4°	Twin	443-0611	443-0610	444-0611	444-0610
l st Bicuspid – hook	-17°	-   °	4°	Twin	443-1611	443-1610	444-1611	444-1610
2nd Bicuspid	-22°	-   °	4°	Twin	443-0711	443-0710	444-0711	444-0710
2nd Bicuspid – hook	: -22°	-   °	4°	Twin	443-1711	443-1710	444-1711	444-1710
Single-Patient Kits	S							
Single-Patient Kit	Upper	3 – 3, h	ooks on (	Cuspids	746-	-4300	746	-4400
Single-Patient Kit	Upper	5 – 5, h	ooks on (	Cuspids	746-	-4301	746	-4401
Single-Patient Kit	Upper	/Lower	3 – 3, ho	oks on Cuspids	746-	-4302	746	-4402
Single-Patient Kit	Upper	5 – 5/L	ower 3 –	3, hooks on Cuspids	746-	-4303	746	-4403
Single-Patient Kit	Upper,	/Lower (	3 – 3, no	hooks	746-	4304	746	-4404
Single-Patient Kit	Upper	5 – 5/L	ower 3 –	3, no hooks	746-	-4305	746	-4405
Single-Patient Kit	Upper,	/Lower !	5 – 5, no	hooks	746-	-4306	746	-4406
Single-Patient Kit	Upper,	/Lower !	5 – 5, hoo	oks	746-	-4307	746	-4407

All hooks are distogingival unless otherwise noted.

## Inspire ICE Super Torque & Special Options

Tooth	Torque	Ang.	Rot.	Bracket Type		Part N	umbers	
Maxillary					.018 L	.018 R	.022 L	.022 R
Central	+22°	$+5^{\circ}$	0°	Twin	443-0143	443-0142	444-0143	444-0142
Central	+17°	+5°	0°	Twin	443-0141	443-0140	444-0141	444-0140
Lateral	+14°	$+8^{\circ}$	0°	Twin	443-0243	443-0242	444-0243	444-0242
Lateral	+10°	+9°	0°	Twin	443-0241	443-0240	444-0241	444-0240
Cuspid	+7°	$+10^{\circ}$	0°	Twin	443-0343	443-0342	444-0343	444-0342
Cuspid	-2°	+9°	4°	Twin	443-035 I	443-0350	444-0351	444-0350
Cuspid – hook	+7°	$+10^{\circ}$	0°	Twin	443-1343	443-1342	444-1343	444-1342
Cuspid – hook	-2°	+9°	4°	Twin	443-1351	443-1350	444-1351	444-1350
Cuspid – hook	+3°	+9°	4°	Twin	443-1341	443-1340	444-1341	444-1340

## Inspire ICE<sup>TM</sup> (cont.)

## Inspire ICE Face-Paint<sup>™</sup> Identification System

Inspire ICE also incorporates Ormco's patented Face-Paint System, which is designed to facilitate bracket placement as well as identification. The facial surface is coated with a nontoxic, watersoluble dye and the recesses of the archwire slot and inner tie-wing are uncolored. This creates a "cross-hairs" effect that makes placement a breeze.



# Spirit<sup>®</sup>MB

### Mechanical Base Bonding for Aesthetics You Can Depend On

With its track record of outstanding clinical performance and reliability, Spirit<sup>®</sup> MB is an aesthetic bracket you'll want to provide for your aesthetically conscious patients. Spirit MB's mechanical base design achieves bond strengths equal to those of traditional stainless steel mesh. Just apply your preferred adhesive material and place the SpiritMB brackets. You'll see that the need for any additional plastic primer is completely eliminated. By eliminating the primer, you won't have the uncontrollable variables that go along with its use – heat and technique sensitivity, limited shelf life – all factors that can affect bond strength.

## SpiritMB Face-Paint<sup>™</sup> Identification System

SpiritMB also incorporates Ormco's patented Face-Paint System, which is designed to facilitate bracket placement as well as identification. The facial surface is coated with a nontoxic, water-soluble dye and the recesses of the archwire slot and inner tie-wing are uncolored. This creates a "cross-hairs" effect that makes placement a breeze.



Color Codes:

Maxillary Blue – Centrals Red – Laterals Green – Cuspids Orange – Bicuspids

Mandibular Red – Anteriors Purple – Cuspids Pink – Bicuspids

## SpiritMB – Level Arch Modern (Available in 10 ea.; 5 ea.; single-patient kit)

Tooth	Torque	Ang.	Bracket Type	M/D	In/Out		Part Nu	Imbers	
Maxillary				in mil	limeters	.018 L	.018 R	.022 L	.022 R
Central	$+14^{\circ}$	$+5^{\circ}$	Twin	3.5	1.3	494-0111	494-0110	495-0111	495-0110
Lateral	+7°	+8°	Twin	3.5	1.5	494-0211	494-0210	495-0211	495-0210
Cuspid	0°	$+10^{\circ}$	Twin	3.5	1.0	494-0301	494-0300	495-0301	495-0300
Cuspid – hook	0°	$+10^{\circ}$	Twin	3.5	1.0	494-1301	494-1300	495-1301	495-1300
Bicuspid	-7°	0°	Twin	3.1	0.1	494-0514	l/Universal	495-0514/Universal	
Bicuspid – hook	-7°	0°	Twin	3.1	0.1	494-1514	l/Universal	495-1514	ł/Universal
Mandibular						.018 L	.018 R	.022 L	.022 R
Anteriors	-   °	0°	Twin	3.1	1.4	494-0025	/Universal	495-0025	/Universal
Cuspid	-7°	+6°	Twin	3.5	0.8	494-0411	494-0410	495-0411	495-0410
Cuspid – hook	-7°	+6°	Twin	3.5	0.8	494-1411	494-1410	495-1411	495-1410
l st Bicuspid	-  °	0°	Twin	3.1	0.1	494-0615	/Universal	495-0615	/Universal
l st Bicuspid – hook	-  °	0°	Twin	3.1	0.1	494-1615	/Universal	495-1615	/Universal
2nd Bicuspid	-17°	0°	Twin	3.1	0.1	494-0725	/Universal	495-0725	/Universal
2nd Bicuspid – hool	k -17°	0°	Twin	3.1	0.1	494-1725	/Universal	495-1725	/Universal
Single-Patient Kit	s								
Single-Patient Kit	Upp	er 3 – 3						740-	0222
Single-Patient Kit	Upp	er 3 – 3, ł	nooks on Cuspids			740-	1221	740-	1222
Single-Patient Kit	Upp	er/Lower	3 – 3					740-	0224
Single-Patient Kit	Upp	er/Lower	3 – 3, hooks on Cuspids			740-	1223	740-	-1224
Single-Patient Kit	Upp	er 5 – 5, ł	nooks on Cuspids			740-	1225	740-	-1226
Single-Patient Kit	Upp	er/Lower	5 – 5			740	-0227	740-	-0228
Single-Patient Kit	Upp	er/Lower	5 – 5, hooks on Cuspids			740-	1227	740-	-1228

All hooks are distogingival unless otherwise noted.

## SpiritMB – Additional Options

Tooth	Torque	Ang.	Bracket Type	M/D	ln/Out		Part Nu	ımbers	
Maxillary				in mil	limeters	.018 L	.018 R	.022 L	.022 R
Central	+22°	$+5^{\circ}$	Twin	3.5	1.3	494-0121	494-0120	495-0121	495-0120
Lateral	+14°	$+8^{\circ}$	Twin	3.5	1.5	494-0221	494-0220	495-023 I	495-0230
Cuspid	+7°	$+10^{\circ}$	Twin	3.5	1.0	494-0321	494-0320		
Cuspid – hook	+7°	$+10^{\circ}$	Twin	3.5	1.0	494-1321	494-1320		
					.018 L	.018 R .022 L	.022 R		
Cuspid	+7°	$+5^{\circ}$	Twin	3.5	0.8	494-0421	494-0420		
Cuspid — hook	+7°	$+5^{\circ}$	Twin	3.5	0.8	494-1421	494-1420		

# Alexander Spirit MB

### The First Aesthetic Appliance with Metal Wings

Alexander SpiritMB brackets offer the strength of an advanced polymeric material and the added integrity of a stainless steel reinforced slot. They provide not only effective torque control but also the sliding characteristics of metal brackets. The metal rotation wings are easily adjustable and provide the superior rotational control that characterizes the Mini-Wick System<sup>™</sup>. The wedge design of the brackets minimizes occlusal interference and bracket wear, and there is ample under-tie-wing area for easy ligating.

## SpiritMB Face-Paint<sup>™</sup> Identification System

On all angulated brackets (maxillary centrals, maxillary laterals and all cuspids), rights and lefts are indicated by a distogingival dot. Lower centrals and upper bicuspids are universal and can be placed either left or right. A dot indicates the gingival tie-wing, and the lower second bicuspids are distinguished from the lower first by a second occlusal dot. Lower laterals and upper and lower cuspids are identified by a black dot on the distal rotation wing.





Color Codes:

Maxillary Blue – Centrals Red – Laterals Green – Cuspids Orange – Bicuspids

Mandibular Red – Anteriors Purple – Cuspids Pink – Bicuspids

## Alexander SpiritMB (.018 only) (Available in 10 ea.; 5 ea.; single-patient kit)

Tooth	Torque	Ang.	Bracket Type	M/D	ln/Out	Part Nu	mbers
Maxillary				in mill	imeters	.018 L	.018 R
Central	$+14^{\circ}$	+5°	Twin	3.5	1.3	494-0111	494-0110
Lateral – hook	+7°	$+8^{\circ}$	Twin	3.5	I.5	494-1211	494-1210
Cuspid	-3°	+10°	Single, flat wings	3.1	1.0	494-3311	494-3310
Bicuspid	-7°	0°	Single, flat wings	3.1	1.1	494-3514	/Universal
Mandibular						.018 L	.018 R
Central	-5°	0°	Single, curved wings	3.1	1.5	494-3055	/Universal
Lateral – hook	-5°	+6°	Single, curved wings	3.1	1.5	494-3063	494-3062
Cuspid	-7°	$+6^{\circ}$	Single, flat wings	3.1	1.0	494-3343	494-3342
l st Bicuspid	-  °	0°	Single, flat wings	3.1	1.0	494-3615	/Universal
2nd Bicuspid	-17°	0°	Single, flat wings	3.1	1.1	494-3725	/Universal
Single-Patient Ki	ts						
Single-Patient Kit	Uppe	er/Lower 5 – 5				740-	0238
Single-Patient Kit	Uppe	er/Lower 3 – 3				740-	0240
Single-Patient Kit	Uppe	er 3 – 3				740-	0242

# Lingual Brackets

## STb<sup>™</sup> Light Lingual System

The light-force mechanics of the STb Light Lingual System are designed to decrease the stress of tooth movement, making treatment far gentler. In most cases, a full TARG or CLASS setup is not required, simplifying and reducing costs typically associated with lingual cases. Indirect bonding application can be fabricated in your own practice or by AOA laboratory. Utilizing passive ligation, STb Light Lingual dramatically reduces friction and forces allowing teeth to move freely with exceptional efficiency. It's lingual like you've never seen it before.

- · Low-force, low-friction mechanics for faster, gentler tooth movement
- Maximum patient comfort with minimal impact on speech
- Predictable high-quality results
- Eliminates compliance issues and misplaced aligners
- Low bracket profile at 1.5mm and rounded design provides maximum comfort
- Most cases without TARG or CLASS set-up

# STb<sup>™</sup> Social 6 Light Lingual System

The most aesthetic option available within the STb family, STb Social 6 is aimed towards patients motivated to correct minor to moderate crowding or spacing issues affecting anterior teeth.

- Completes most cases in six weeks to four months
- Simple two-wire sequence quickly unravels and aligns teeth
- No custom wire shaping and no need for composite buttons



STb Social 6 Lingual Bracket

#### Complete STb<sup>™</sup> System (7–7)





Treatment Time: 6 months



**Treatment Time: 8 weeks** 



## STb<sup>™</sup> Straightwire System

Designed for maximum treatment efficiency and patient comfort, the STb Straightwire and Bicuspid brackets accommodate varying patient anatomy to facilitate ideal archform development and occlusion.

STb Straightwire Bicuspid brackets have been specifically engineered to accommodate the STb Straightwire. These brackets feature a lower profile than the original STb Bicuspid brackets and are available with and without a hook.

STb<sup>™</sup> Straightwire (upper)



STb<sup>™</sup> Straightwire (lower)



## STb Marking System



	Central	Lateral	Cuspid	lst Bicuspid	2nd Bicuspid
Upper*	Dark Blue	Pink	Green	Purple	Purple
High Torque**	Red	Red	Red		
Low Torque**	Green	Green			
Lower*	Yellow	Yellow	Light Blue	White	Red
High Torque**			Red		
Low Torque**	Green	Green			

.

 $\ast \mathsf{ID}$  dots are distogingival on all brackets, including high and low torques.

\*\*ID dots are located on center of slide.

## STb Light Lingual System (Available in 10 ea.; single-patient kit)

Tooth	Torque	Ang.	D/0	Part Numbers
Anteriors				
Upper 3 – 3 Universal*	+55°	0°	0°	369-2102
Upper 3 – 3 Universal, hook*	+55°	0°	0°	369-3102
Lower 3 – 3 Universal*	+40°	0°	0°	369-2110
Lower 3 – 3 Universal, hook*	+40°	0°	0°	369-3110
Bicuspids				
Upper/Lower 4 &5 Universal	+  °	0°	0°	369-2400
Upper/Lower 4 &5 Universal, hook	+  °	0°	0°	369-3400
Upper/Lower 4 &5 Universal, hook	0°	0°	0°	369-2401
Upper/Lower 4 &5 Universal	0°	0°	0°	369-3401
Molars				
Upper 6R, hook	+10°	0°	+5°	369-3600
Upper 6L, hook	+10°	0°	+5°	369-3601
Upper 7R, hook	+10°	0°	+5°	369-3700
Upper 7L, hook	+10°	0°	+5°	369-3701
Lower 6R, hook	0°	0°	0°	369-3610
Lower 6L, hook	0°	0°	0°	369-3611
Lower 7R, hook	0°	0°	0°	369-3710
Lower 7L, hook	0°	0°	0°	369-3711
Single-Patient Kits				
Extraction Upper & Lower 7-7				740-0411
Upper & Lower 7-7				740-0412
Upper Only 7-7				740-0414
Upper Only 7-7				740-0415
Upper 3-3 Only*				740-0416
Upper & Lower 3-3*				740-0417

\*Parts for STb Social 6 cases

Please reference Lingual Arch Form wires for STb Light Lingual System archwire part number (See Secton 5, Page 25)

## Lingual Brackets (cont.)

## STb Straightwire System

Tooth	Torque	Ang.	D/O	Part Numbers
Anteriors				
Upper 3 – 3 Universal*	+55°	0°	0°	369-2102
Upper 3 – 3 Universal, hook*	+55°	0°	0°	369-3102
Lower 3 – 3 Universal*	+40°	0°	0°	369-2110
Lower 3 – 3 Universal, hook*	+40°	0°	0°	369-3110
Bicuspids				
Upper/Lower 4 &5 Universal	+  °	0°	0°	369-2402
Upper/Lower 4 &5 Universal, hook	+  °	0°	0°	369-3402
Upper/Lower 4 &5 Universal	0°	0°	0°	369-2403
Upper/Lower 4 &5 Universal, hook	0°	0°	0°	369-3403
Molars				
Upper 6R, hook	$+10^{\circ}$	0°	+5°	369-3600
Upper 6L, hook	+10°	0°	+5°	369-3601
Upper 7R, hook	+10°	0°	+5°	369-3700
Upper 7L, hook	+10°	0°	+5°	369-3701
Lower 6R, hook	0°	0°	0°	369-3610
Lower 6L, hook	0°	0°	0°	369-3611
Lower 7R, hook	0°	0°	0°	369-3710
Lower 7L, hook	0°	0°	0°	369-3711
Single-Patient Kits				
Extraction Upper & Lower 7-7				740-0421
Upper & Lower 7-7				740-0422
Upper Only 7-7				740-0424
Extraction Upper Only 7-7				740-0425

\*Parts for STb Social 6 cases

Please reference Lingual Arch Form wires for STb Straightwire System archwire part number See Secton 5, Page 25

## **Complementary Products** See various sections of this catalog for the following product

that complement the Lingual brackets.

- Grengloo<sup>™</sup>
- DemiOrtho<sup>™</sup>
- Lingual Wires
- Lingual Straight Wire

### SECTION PAGE 55

## Gen 7 Complete

## Lingual Appliance System and Associated Products

Ormco's original lingual appliance system, Gen 7 has significant orthodontist and patient benefits:

- Easier to ligate more under-tie-wing area
- Easier archwire insertion rounded slot openings and gingival ramp guide wires into slots
- More comfortable and more compact

#### T.A.R.G. - Torque Angulation Reference Guide

The T.A.R.G. is a precision bracket placement device used in indirect bonding for either labial or lingual brackets. It will accurately\* and consistently establish technician- or doctorspecified torques, tips and bracket heights for each tooth.

\*Settings can be determined to >.5° and .01"

T.A.R.G. Complete Unit	901-0015	Slot Gauge/Scribe Bit .018
Surveyor Torque Blades	901-0002	Slot Gauge/Scribe Bit .022
Surveyor Pivoting Model Holder	901-0003	Instruction Booklet

## For Exceptional **Lingual Indirect Bonding Service**, Call AOA

901-0006

901-0007 070-0057

> C.L.A.S.S. (Custom Lingual Appliance Setup Service) setups and T.A.R.G. (Torque Angulation Reference Guide) services are available from AOA. AOA maintains a complete inventory of Ormco lingual brackets and archwires. Call 800.262.5221 to discuss your lingual orthodontic needs.

## Molar – Twin with



Molar - Twin with Hook

**Anterior Assembly** 

Molar - Hinge Ca with Hook

Gen 7 Lingual Appliance (Available in single-patient and two-patient kit)

looth	Bracket lype		Part Numbers				
Maxillary		.018 L	.018 R	.022 L	.022 R		
Central	Lingual	367-5011	367-5001	368-5011	368-5001		
Lateral	Lingual	367-5012	367-5002	368-5012	368-5002		
Cuspid	Lingual	367-5013	367-5003	368-5013	368-5003		
Bicuspid	Lingual	367-5044	/Universal	368-5044	l/Universal		
Molar	Twin	367-1816	367-1806	368-1816	368-1806		
Molar – weldable	Twin	367-1916	367-1906	368-1916	368-1906		
Molar – weldable	Twin, transpalatal sheath	367-0049	/Universal	368-0049	/Universal		
Molar	Hinge cap	367-1616	367-1606	368-1616	368-1606		
Molar – weldable	Hinge cap	367-1716	367-1706	368-1716	368-1706		
Molar	Terminal tube	367-1316	367-1306	368-1216	368-1206		
Molar – weldable	Terminal tube	367-1016	367-1006	36- 6 6	136-1606		
Mandibular		.018 L	.018 R	.022 L	.022 R		
Anterior	Lingual	367-5050	/Universal	368-5050	)/Universal		
Cuspid	Lingual	367-5033	367-5023	368-5033	368-5023		
Bicuspid	Lingual	367-5044	/Universal	368-5044	ł/Universal		
Molar	Twin	367-1836	367-1826	368-1836	368-1826		
Molar – weldable	Twin	367-1936	367-1926	368-1936	368-1926		
Molar	Hinge cap	367-1636	367-1626	368-1636	368-1626		
Molar – weldable	Hinge cap	367-1736	367-1726	368-1736	368-1726		
Molar	Terminal tube	367-1336	367-1326	368-1236	368-1226		
Molar – weldable	Terminal tube	367-1036	367-1026				
Single-Patient Kit	s						
Single-Patient Kit	Upper/Lower 5 – 5	740	-0062				
Two-Patient Kit	Loper/Lower 5 – 5	740	740-0063				

Upper/Lower 5 - 5 All lingual brackets include a hook, except the upper molar twin with transpalatal sheath.



## Section Two

# Digital Systems

page

2

Insignia

## **DIGITAL SYSTEMS**

# Insignia

## **Combining Artistic Design with Precision Engineering**

Insignia is an integrated system of 3-D digital orthodontics with customized appliances for a truly all-inclusive solution.Insignia allows you to combine your treatment strategy with the precision of computer-aided smile design to give every patient an optimal occlusion and smile arc specifically proportioned to their unique facial features. Insignia can make difficult cases more manageable and routine cases exceptional.

- 1. Multiple data points design accurate 3-D models
- 2. Approver software puts control and precision in your hands
- 3. Patient-specific brackets built with the end-result in mind, provide maximum clinical efficiency
- 4. Customized wires result in fewer finishing appointments
- 5. Precision placement guides virtually eliminate the need for mid-treatment bracket repositioning appointments

A culmination of decades of research and innovation, Insignia uses advanced algorithms in combination with PVS impressions to create a 3-D virtual model of the patient's anatomy. With Insignia, you have complete control of each case. Although an initial suggested course of treatment is provided through the Approver software, you are able to view each tooth in great detail- Multiple views and rotations allow you to perfect each case and make cosmetic adjustments to create a truly unique smile.

Insignia is the only treatment system that delivers a complete custom solution – based on the treatment you design and approve; patient-specific brackets and wires are fabricated to reach your desired occlusion. Precision placement guides are

developed to place brackets in the precise position required to optimally obtain the desired results in less time.

- User friendly software to treatment plan and visualize the end result
- Tailor-made appliances reduce mid-treatment adjustments and deliver precise, predictable finishes
- Time-consuming procedures (bracket bonding) may be administered by staff members allowing you to focus on diagnostics and treatment planning
- No start-up, licensing or inventory costs
- View final smile design prior to treatment a powerful consultation tool.



## **DIGITAL SYSTEMS**

## **Training for Success**

To begin your journey into Insignia a convenient three-step curriculum has been devised to make your transition into the Approver software easy and effective.

### Insignia



Self-Ligating Appliances
• Metal

• Ceramic

## **Insignia Auxiliary Products**



Traditional Twin Appliances
• Metal





Wires
• CuNi-Ti
• TMA

• Ni-Ti • Stainless Steel

Part Numbers

Insignia SL 180° Bent Hook, 30 per pack	242-0050
Insignia SL 90° Bent Hook, 30 per pack	242-0060

## Phase 1

Using the Insignia case submission portal, MyInsigniaOrtho.com, offices work with a reputable Digital Solutions Specialist to set up their case preferences and complete their profile setup. Cases will be submitted through this portal to the Insignia Smile Design Lab.

## Phase 2

After cases are submitted, the most optimal result for that patient is created and submitted to the orthodontist for review. Through the use of Insignia Approver, the doctor is able to view, edit and incorporate their own treatment mechanics to perfect the smile before custom brackets and wires are manufactured.

After the initial case submission, a webinar is scheduled with our team of Digital Solutions Specialists to learn how to navigate through the software for efficient review and approval process. Great attention to detail is given to the doctor's own case, this resource is available beyond the initial case whenever the need for advice may arise.

- Review cases in the 3-D software, Insignia Approver
- Utilize software features and how they affect the treatment plan
- Learn how to make design changes to a treatment plan
- Understand how to make changes to a treatment plan and submit for completion

#### it for completion

To incorporate Insignia Advanced Smile Design into your office, contact your Ormco Sales Representative

## Phase 3

Precision bracket placement guides are one of the best features of Insignia. The placement guides give the user the ability to directly bond brackets in the most precise position for the best results according to the approved treatment plan. A critical step for success, the Ormco Sales Representative or Digital Solutions Specialist will be present for the initial Insignia bonding. In some states and countries, office workflow may be streamlined by allowing key staff members to perform bonding. It is recommended that both the orthodontist and staff participate in this session. Additionally we suggest that this bonding day is scheduled on a day when other patients are not being seen.

"Insignia works in tandem with my expertise as a clinician to provide the best possible treatment outcome. I know the exact result of each patient prior to bonding, every time."

- Jeff Kozlowski DDS, MS

## Section Three

# **Buccal Tubes**

page	2	Re-convertible Tubes
page	3	Titanium Tubes
Page	4	Accent Tubes
page	5	Peerless Tubes
page	9	Gingivally Offset Tubes
page	10	Micro Tubes
page	14	Andrews Translation Tubes

## **BUCCAL TUBES**

# SnapLink<sup>®</sup> Buccal Tubes



Whether you treat with conventional twins or self-ligating brackets, the SnapLink re-convertible tube helps you gain more control and treat patients more efficiently. Each tie-less, low-friction SnapLink tube makes wire changes and posterior tooth movement snap. As a result, patients will experience shorter appointments and more comfortable treatments.

## Convert and re-convert for more effective treatment

• Dual functionality allows you to covert the tube to easily engage second molars with either round or rectangular archwires, or place auxiliaries while maintaining your patient's natural wire sequence. Convert and reclose as often as needed.

## Improve sliding mechanics and gain greater control

- Tie-less tube reduces friction for smoother sliding mechanics.
- Four solid walls provide the control of a standard tube for fast, predictable posterior tooth movement.

## Decrease chair time with faster wire changes

- Tie-less tube saves valuable chair time by eliminating tying and retying ligatures.
- Chamfered mesial slot opening enables easy wire engagement and removal even when the slide is closed.

## Increase patient comfort

- Innovative SpinTek<sup>™</sup> slide employs reciprocal forces during opening. A slight twist dispenses forces in opposite directions, resulting in greater patient comfort.
- Low profile with rounded corners and angled highretention hook minimize occlusal interference.

## Increase bond reliability

• Contoured base with 80-gauge mesh pads eliminate "rocking" for reliable bond retention.

## Easy connection to second molars



Convertible tubes require frequent tying of ligatures once the cap has been removed, which results in lengthy wirechange appointments, especially for cases involving impacted second molars.



The SnapLink re-convertible tube eliminates the need for constant tying, making it easy to connect to second molars – even when making wire bends – without downsizing to a smaller wire.

## SnapLink Tubes (Available in Quad packaging, 10 ea.)

Туре	Torque	Angle	Rot.	Part Numbers
Tubes				.022 L .022 R
Upper	-18°	0°	I2°	438-2161 438-2160
Lower	-28°	2°	2°	438-2191 438-2190

Instruments SpinTek Slide Opening/Closing Instrument 866-4016 SpinTek Slide Opening Instrument 866-4014

# **Titanium Buccal Tubes**

Titanium buccal tubes combine the shock absorbency and adhesive affinity of titanium with an innovative design that makes bonding easy and more reliable.



Comparison with Ormco's Accent and Peerless tubes shows a significant reduction in profile as well as an increase in bonding surface with Titanium buccal tubes.

### Titanium Buccal Tubes (Available in Quad packaging, 10 ea.)

			Distal						
Туре	Torque	Angle	Offset		Part Numbers				
Upper				.018 L	.018 R	.022 L	.022 R		
First Molar	-10°	0°	15°	448-2116	448-2016	449-2116	449-2016		
First Molar	-   0°	0°	10°	448-1201	448-0201	449-1201	449-0201		
First Molar	-18°	0°	I2°			449-1011	449-0011		
Second Molar	-   0°	0°	15°	448-2117	448-2017	449-2117	449-2017		
Second Molar	-10°	0°	6°	448-1202	448-0202	449-1202	449-0202		
Second Molar	-27°	0°	6°	448-1203	448-0203	449-1203	449-0203		
Lower				.018 L	.018 R	.022 L	.022 R		
First Molar	-10°	0°	0°	448-2126	448-2026	449-2126	449-2026		
First Molar	-22°	0°	0°	448-1204	448-0204	449-1204	449-0204		
First Molar	-22°	0°	5°	448-1206	448-0206	449-1206	449-0206		
First Molar	-28°	2°	2°			449-1015	449-0015		
Second Molar	-   0°	0°	5°	448-2127	448-2027	449-2127	449-2027		
	-22°	0°	5°	448-1205	448-0205	449-1205	449-0205		

\*All tubes are single, bondable and have integral mesiogingival hooks. No distal extension available.

Titanium buccal tubes are color-coded by quadrant – Upper right: Blue, Upper left: Black, Lower right: Red, Lower left: Yellow.

## SECTION 3 PAGE 4

## **BUCCAL TUBES**

# Accent<sup>®</sup> Buccal Tubes Comparison of Accent Tube with Conventional

The Accent buccal tube is designed to help eliminate occlusal tie-wing inteference and premature cap failure. Accent is nonconvertible, has no tiewings and features an accentuated mesial opening.

#### Accentuated Mesial Openings

The highly accentuated trumpeted mesial opening greatly facilitates archwire insertion.

#### No Convertible Caps

No premature conversions and no conversion difficulties to create treatment headaches and delays.

### Accent Tubes (Available 10 ea.)

- · All cast tubes have integral mesiogingival hooks
- All auxiliary tubes have O° torque and no distal offset
- No convertible caps or tie-wings
- 3.88 mm mesiodistal measurement

#### No Tie-Wings

Eliminates the common cause of interference with opposing teeth and tubes.

#### Low Profile

Accent buccal tubes also feature Ormco's renowned smooth cast construction, integral mesial hooks and reduced weld flanges.

# Tube



**Double Bondable** 

convertibility

unnecessary.



**Single Bondable** 

Туре	Torque	Distal Offset		Weldable Pa	art Numbers		Bondable Part Numbers				
Upper First Mo	lar		.018 L	.018 R	.022 L	.022 R	.018 L	.018 R	.022 L	.022 R	
Double	-10°	۱5°	521-0238	520-0238	521-0239	520-0239	340-1240	340-0240	342-1239	342-0239	
Single	-10°	۱5°	515-0116	514-0116	515-0115	5 4-0  5	340-5116	340-4116	342-5115	342-4115	
Upper Second Molar			.018 L	.018 R	.022 L	.022 R	.018 L	.018 R	.022 L	.022 R	
Single	-10°	5°	515-0112	514-0112	515-0111	5 4-0	340-5112	340-4112	342-5111	342-4111	
Single*	0°	5°	515-0202	514-0202	515-0201	514-0201	340-5202	340-4202	342-5201	342-4201	
Single*	-10°	۱5°	515-0216	514-0216	515-0215	514-0215	340-5216	340-4216	342-5215	342-4215	
Single*	-10°	5°	515-0212	514-0212	515-0211	514-0211	340-5212	340-4212	342-5211	342-4211	
Lower First Mo	lar		.018 L	.018 R	.022 L	.022 R	.018 L	.018 R	.022 L	.022 R	
Double	-10°	0°	521-0236	520-0236	521-0237	520-0237	340-1236	340-0236	342-1241	342-0241	
Double	-27°	5°	521-0232	520-0232	521-0231	520-023 I	340-1232	340-0232	342-1231	342-023 I	
Single	-10°	0°	515-0118	514-0118	515-0117	514-0117	340-5118	340-4118	342-5117	342-4117	
Single	-22°	5°	515-0122	514-0122	515-0121	514-0121			342-5121	342-4121	
Lower Second I	1olar		.018 L	.018 R	.022 L	.022 R	.018 L	.018 R	.022 L	.022 R	
Single*	0°	5°	514-0202	515-0202	514-0201	515-0201	340-4202	340-5202	342-4201	342-5201	
Single*	-10°	5°	514-0214	515-0214	514-0213	5 5-02 3	340-4214	340-5214	342-4213	342-5213	
Single	-10°	5°	514-0114	515-0114	514-0113	5 5-0  3	340-4114	340-5114	342-4113	342-5113	
Single*	-27°	5°	515-0232	514-0232	515-0231	514-0231	340-5232	340-4232	342-5231	342-4231	
Single	-22°	5°					340-5122	340-4122	342-5121	342-4121	
Single	-27°	5°	515-0132	514-0132	515-0131	514-0131	340-5132	340-4132	342-5131	342-4131	

**Double Weldable** 

**Single Weldable** 

\* Distal extension

# Peerless Cast Buccal Tubes

## **Optimesh**<sup>®</sup>XRT

With Optimesh XRT, Ormco has once again redefined the standards of the optimal direct bond. Optimesh XRT incorporates our popular Mini Diamond® bracket series and Peerless® and Accent® buccal tubes with a specially treated bonding pad that enhances bond strength by 35% and minimizes cleanup at debonding.





SEM photographs show a comparison of untreated mesh and Optimesh XRT. The Optimesh XRT coating not only dramatically increases available bonding surfaces, but also enhances the undercuts in the mesh, a critical factor in increasing adhesive-to-mesh bond strength. Peerless cast tubes are 20% smaller than competitive alternatives. Ormco's advanced casting technology delivers not only increased strength, but also produces smaller precision tubes to increase clinical efficiency and patient comfort. Both occlusal interference and gingival impingement are reduced and hygiene is improved. Increased arch length between first and second molars facilitates engagement in terminal tube.

Integrally cast hook stays on after conversion for convenient elastic use. No sharp edges, strong and malleable. Designed to minimize tissue impingement. Flush-seated cap provides a smooth buccal surface. Lightly brazed so it won't convert unintentionally, yet easily removable with Ormco's simple cap tool.

Chamfered archwire entry for easy access.

**Trumpeted headgear tube** 

aids facebow insertion.

**Peerless Combination** 

Generous under-tie-wing area for easy ligation. Anatomical tie-wing improves cusp clearance.

Flush-seated cap provides a smooth buccal surface. Lightly brazed so it won't convert unintentionally, yet easily removable with Ormco's simple cap tool.

Reduced weld flanges allow better attachment to band, preserving band anatomy for better fit

and retention to tooth.

g improves cusp clearance.

Unique occlusal shelf reduces interference.

**Headgear extends** 

distally by .020

to aid tie-back.

Chamfered archwire entry for easy access.

Peerless Single

## Peerless Tubes

- Peerless M-D dimensions: Triples 3.5 mm, Doubles 3.4 mm, Singles 3.3 mm, M/P and Pix 2 mm.
- All tubes have integral mesiogingival hooks unless otherwise noted.
- First molar tubes are convertible unless otherwise noted. Cap Tool #801-0094 makes conversion safe and easy.
- All facebow and lip bumper tubes are .045 and occlusal unless otherwise noted.
- All auxiliary, facebow and lip bumper tubes have 0° torque and 0° distal offset except as noted.
- Regarding triple and double tubes: all .018 main slots have an .018 x .025 auxiliary; .022 main slots have an .021 x .025 auxiliary except as noted.

## SECTION 3 PAGE 6

## **BUCCAL TUBES**

## Peerless<sup>®</sup> Cast Buccal Tubes (cont.)

## Peerless Upper First Molar (Available 10 ea.)













**Triple/Occlusal HG** 

**Triple/Gingival HG** 

Peerless Upper Second Molar (Available 10 ea.)

\_..

**Combo/Occlusal HG** 

**Combo/Gingival HG** 

Single

Double

Distal

Туре	Torque	Offset		Weldable Pa	art Numbers			Bondable Pa	Sondable Part Numbers		
			.018 L	.018 R	.022 L	.022 R	.018 L	.018 R	.022 L	.022 R	
Triple*	0°	10°	193-0402	194-0402						_	
Triple	-10°	۱5°	173-0422	174-0422	173-0421	174-0421					
Triple (Burstone)	-10°	10°	173-0424	174-0424	173-0423	174-0423					
Triple (Cetlin)**	-10°	۱5°	173-1422	174-1422	173-1421	174-1421					
Triple*	-10°	10°	193-0406	194-0406	193-0405	194-0405					
Combination*	0°	0°	193-0102	194-0102	193-0101	194-0101					
Combination	0°	0°	195-0208	196-0208							
Combination	0°	10°	195-0206	196-0206	195-0205	196-0205					
Combination	-10°	۱5°	195-0210	196-0210	195-0209	196-0209					
Combination	-10°	10°	195-0202	196-0202							
Combination*	-10°	10°	193-0106	194-0106	193-0105	194-0105					
Double	-10°	12°	171-0436	172-0436	171-0435	172-0435	340-0036	340-0136	342-0036	342-0136	
Single	-10°	15°	189-0318	190-0318	189-0317	190-0317	340-2359	340-2259	342-2359	342-2259	
Single	-10°	10°	187-0308	188-0308	187-0307	188-0307	340-2106	340-2006	342-2106	342-2006	

\* Gingival headgear tube.

\*\* .028 auxiliary tube.



**Single/Distal Extension** 

#### Single/No Distal Extension

Туре	Torque	Distal Offset		Weldable Pa	art Numbers			Bondable Part Numbers			
			.018 L	.018 R	.022 L	.022 R	.018 L	.018 R	.022 L	.022 R	
Single	0°	6°	513-2202	512-2202	513-2201	512-2201	340-6807	340-6707	342-6807	342-6707	
Single*	0°	6°	513-2102	512-2102	513-2101	512-2101	340-4807	340-4707	342-4807	342-4707	
Single	-10°	l 2°	516-2104	517-2104	516-2103	517-2103	340-0556	340-0456	342-0555	342-0455	
Single*	-10°	۱5°	516-2204	517-2204	516-2203	517-2203					
Single*	-   0°	6°	512-2110	5 3-2  0	512-2109	513-2109	340-5147	340-5047	342-5147	342-5047	
Single	-10°	6°	512-2210	513-2210	512-2209	513-2209	340-6147	340-6047	342-6147	342-6047	

\* Distal extension.

## **BUCCAL TUBES**

## SECTION 3 PAGE 7

### Peerless Lower First Molar (Available 10 ea.)













Convertible Double

Lip Bumper w/o Hook

D' . . . I

Lip Bumper

Lip Bumper/Triple

Lip Bumper/ Nonconvertible



Туре	Torque	Offset		Weldable Pa	rt Numbers		Bondable Part Numbers				
			.018 L	.018 R	.022 L	.022 R	.018 L	.018 R	.022 L	.022 R	
Double	0°	5°	171-0432	172-0432	171-0431	172-0431					
Double	-10°	0°	171-0412	172-0412	171-0411	172-0411	340-0156	340-0046	342-0156	342-0046	
Double	-22°	5°	171-0434	172-0434	171-0433	172-0433					
Double	-27°	l 2°	171-0422	172-0422	171-0421	172-0421					
Double*	-27°	5°	171-0426	172-0426	171-0425	172-0425	340-0526	340-0426	342-0525	342-0425	
Double (aux. torq	17°)-27°	5°	171-0430	172-0430	171-0429	172-0429					
Lip Bumper (no hoo	k) -10°	0°	175-0104	176-0104	175-0103	176-0103					
Lip Bumper (no hoo	k) -25°	5°	175-0102	176-0102	175-0101	176-0101					
Lip Bumper (triple)*	-27°	5°	171-0872	172-0872							
Lip Bumper (triple)*†	-27°	5°	171-0626	172-0626	171-0625	172-0625					
Single	0°	0°	189-0302	190-0302	189-0301	190-0301					
Single	0°	5°	187-0302	188-0302	187-0301	188-0301	340-2326	340-2226	342-2326	342-2226	
Single	-10°	0°	189-0300	190-0300	189-0299	190-0299	340-2356	340-2256	342-2356	342-2256	
Single (Orthos AP)	-10°	-4°	189-0310	190-0310	189-0309	190-0309	340-2358	340-2258	342-2358	342-2258	
Single	-22°	0°	189-0304	190-0304	189-0303	190-0303					
Single	-22°	5°	187-0304	188-0304	187-0303	188-0303	340-2306	340-2206	342-2306	342-2206	
Single	-27°	0°	189-0306	190-0306	189-0305	190-0305					
Single	-27°	5°	187-0306	188-0306	187-0305	188-0305	340-2316	340-2216	342-2316	342-2216	

 $\ast$  .022 auxiliary tube - .022 x .027; .018 auxiliary tube - .018 x .027.

† Indicates nonconvertible.

## Peerless Tubes

- Peerless M-D dimensions: Triples 3.5 mm, Doubles 3.4 mm, Singles 3.3 mm, M/P and Pix 2 mm.
- All tubes have integral mesiogingival hooks unless otherwise noted.
- First molar tubes are convertible unless otherwise noted. Cap Tool #801-0094 makes conversion safe and easy.
- All facebow and lip bumper tubes are .045 and occlusal unless otherwise noted.
- All auxiliary, facebow and lip bumper tubes have 0° torque and 0° distal offset except as noted.
- Regarding triple and double tubes: all .018 main slots have an .018 x .025 auxiliary; .022 main slots have an .021 x .025 auxiliary except as noted.

## **BUCCAL TUBES**

## Peerless<sup>®</sup> Cast Buccal Tubes (cont.)

### Peerless Lower Second Molar (Available 10 ea.)





Single/Distal Extension

Single/No Distal Extension

Туре	Torque	Distal Offset		Weldable Pa	art Numbers		Bondable Part Numbers				
			.018 L	.018 R	.022 L	.022 R	.018 L	.018 R	.022 L	.022 R	
Single*	0°	6°	512-2102	513-2102	512-2101	513-2101	340-4707	340-4807	342-4707	342-4807	
Single	0°	6°	512-2202	513-2202	512-2201	513-2201	340-6707	340-6807	342-6707	342-6807	
Single*	-10°	6°	513-2120	512-2120	513-2119	512-2119	340-5057	340-5157	342-5057	342-5157	
Single	- 1 0°	6°	513-2220	512-2220	513-2219	512-2219	340-6057	340-6157	342-6057	342-6157	
Single*	-20°	6°	512-2104	5 3-2 04	512-2103	513-2103	340-5317	340-5217	342-5317	342-5217	
Single	-20°	6°	512-2204	5 3-2204	512-2203	513-2203			342-6317	342-6217	
Single*	-27°	6°	512-2106	513-2106	512-2105	513-2105	340-5327	340-5227	342-5327	342-5227	
Single	-27°	6°	512-2206	513-2206	512-2205	513-2205	340-6327	340-6227	342-6327	342-6227	
Single	-27°	۱2°	516-2108	517-2108	516-2107	517-2107	340-0546	340-0446	342-0545	342-0445	
Single*	-32°	6°	512-2108	513-2108	512-2107	513-2107	340-5337	340-5237	342-5337	342-5237	
Single	-32°	6°	512-2208	513-2208	512-2207	513-2207					

\* Distal extension.

## Peerless Bondable Mini Buccal Tubes

(Available 10 ea.)

#### M/P

Bondable M/P Terminal Tubes are small (2 mm m-d dimension) Peerless tubes on curved Optimesh XRT bases adapted to fit on the mesiobuccal cusps of partially erupted molars. The .022 tubes are also available nickel-brazed to upper molar crowns to accommodate archwires used in CBJ therapy.

#### Pix

Bondable Pix Tubes are small (2 mm m-d dimension) Peerless tubes on standard Optimesh XRT bases for upper or lower, right or left second molars.



Туре	Torque	Distal Offset	Part Numbers		
M/P Terminal Tubes			.018	.022	
Upper Left/Lower Right	0°	0°	340-0011	342-0011	
Upper Right/Lower Left	0°	0°	340-0012	342-0012	
Upper Right	-10°	0°	340-0014	342-0014	
Upper Left	- I 0°	0°	340-0013	342-0013	
Lower Right	-22°	0°	340-0016	342-0016	
Lower Left	-22°	0°	340-0015	342-0015	
Pix Tubes			.018	.022	
Upper/Lower Seconds	0°	0°	300-0098	300-0099	

# Gingivally Offset Buccal Tubes

Our Gingivally Offset Bicuspid brackets have practically eliminated the need for banding bicuspids, and we bring you the same benefits in bonding first molars. Like our bicuspids, we have positioned the buccal tube at the most gingival edge of the first molar pad. This allows you to bond away from the problematic gingival third of the enamel without compromising bracket position. We have also significantly increased the mesiodistal dimension of the pad to provide a larger bonding area. Our Gingivally Offset First Molars are made with Ormco's exclusive Optimesh<sup>®</sup> XRT.





"The concept behind the bracket/base combination was to shift the bonding area more occlusally to the less problematic middle and occlusal enamel and not to simply increase the bonding area. A similar approach has been taken with the molar buccal tube and bonding base design. I have been bonding molars with this bondable molar buccal tube for over thirteen years, achieving a failure rate of under 10% on first and second molars." – Michael L. Swartz, DDS

### Gingivally Offset Buccal Tubes (Available 10 ea.)

Туре	Torque	Distal Offset	Part Numbers
Upper First Molar			.018 L .018 R .022 L .022 R
Peerless	-10°	۱5°	340-2110 340-2010 342-2110 342-2010
Peerless (Damon System)	-9°	0°	342-2120 342-2020
Lower First Molar			.018 L .018 R .022 L .022 R
Peerless	-10°	0°	340-2111 340-2011 342-2111 342-2011
Peerless (Damon System)	-30°	2°	342-2121 342-2021

# Micro Tubes

Built with the Straight-Wire<sup>®</sup> approach in mind, Micro Tubes offer you a full range of choices that can all be used interchangeably within the Straight-Wire system. Micro Tubes are 30% smaller than traditional buccal tubes while still offering you control and reliability.

The benefits include:

- Reduced occlusal interference, especially on the second molars. The Micro second molar tube is one of the most low-profile tubes in the industry.
- Improved hygiene due to the reduced size.
- Increased space between first and second molars due to the reduced size.











Triple/Gingival Headgear

Triple/Occlusal Headgear

Combination/ Gingival Headgear Combination/ Occlusal Headgear **Double Rectangular** 

### Micro Weldables (Available 10 ea.)

		Distal						
Туре	Torque	Offset	Ang.	Headgear		Part Nu	Imbers	
Upper First Molar					.018 L	.018 R	.022 L	.022 R
Single (SS RMT)	-   4°	4°	0°		137-0008	138-0008	137-0011	38-00
Single (SS MT)	-9°	10°	0°		137-0006	138-0006	137-0007	138-0007
Combination (OBT RMT)	-   4°	4°	0°	Occlusal	137-0062	138-0062	137-0115	38-0  5
Combination (OBT MT)	-9°	10°	$+5^{\circ}$	Occlusal	137-0056	138-0056	137-0107	138-0107
Combination (OBT MT 0°)	-9°	10°	0°	Occlusal	137-0054	138-0054	137-0105	138-0105
Combination (OBT MT 0°)	-9°	10°	0°	Gingival	137-0018	138-0018	137-0031	138-0031
Combination (CBT MT)	-9°	10°	$+5^{\circ}$	Gingival	137-0020	138-0020	137-0033	138-0033
Combination (CBT RMT)	-   4°	4°	0°	Gingival	137-0036	138-0036	137-0067	138-0067
Combination (CBT MT E-2)	-   4°	4°	+2°	Gingival			137-0049	138-0049
Double Rectangular (UDBT NT MT) No HG Tube	-   4°	4°	0°		137-0206	138-0206	137-0293	138-0293
Triple (TBT RMT)	-   4°	4°	0°	Occlusal	137-0086	138-0086	137-0143	138-0143
Triple (TBBT MT)	- 1 0°	۱5°	0°	Occlusal	137-0074	138-0074		
Triple (TBT MT)	-9°	10°	+5°	Occlusal	137-0084	138-0084	137-0137	138-0137
Triple (TBT MT 0°)	-9°	10°	0°	Occlusal	137-0082	138-0082	137-0135	138-0135
Triple (TGBT MT)	-   4°	4°	0°	Gingival	137-0096	138-0096	137-0161	138-0161
Triple (TBT RMT 0°/0°)	-14°	0°	0°	Occlusal			137-0141	138-0141












Double Rectangular Special

Lower First Double

Lower First Triple

Lower First Single

Lower Second Single

Lower Second Single

### Micro Weldables (Available 10 ea.)

-	-	Distal						
Гуре	Iorque	Offset	Ang.	Headgear		Part Nu	mbers	
Upper Second Molar					.018 L	.018 R	.022 L	.022 R
Single (MT)	-9°	10°	$+5^{\circ}$		137-0100	138-0100	137-0169	138-0169
Single (MT 0°)	-9°	10°	0°		137-0098	138-0098	137-0167	138-0167
Single (RMT)	-14°	4°	0°		137-0106	138-0106	37-0 8	38-0 8
Single (DT 0°/0° MT)	-14°	0°	0°				137-0191	138-0191
Double Rectangular Special (RSPEC)	-14°	4°	0°				137-0187	138-0187
Lower First Molar					.018 L	.018 R	.022 L	.022 R
Single (SS RMT)	-30°	4°	-   °		137-0134	138-0134	137-0221	138-0221
Single Low Torque	-10°	0°	0°		137-0132	138-0132	37-023	138-0231
Single (STD MT)	-30°	0°	+2°		137-0122	138-0214	137-0197	138-0197
Double (DBBT MT)	-27°	۱2°	0°		137-0154	138-0154		
Double (DBT MT)	-30°	0°	+2°		137-0162	138-0162	137-0245	138-0245
Double (DBT RMT)	-30°	4°	-   °		137-0166	138-0166	137-0249	138-0249
Double (RMT Balanced)	-30°	4°	-   °		137-0170	138-0170	137-0251	138-0251
Combination (RMT) w/ Tube (Lip Bumper)*	-30°	4°	-   °	Center	137-0144	138-0144	137-0235	138-0235
Triple (LTBT RMT)*	-30°	4°	-   °	Gingival	137-0186	138-0186	137-0269	138-0269
Lower Second Molar					.018 L	.018 R	.022 L	.022 R
Single (MT)	-31°	0°	+2°		137-0190	138-0190	137-0275	138-0275
Single (RMT)	-30°	4°	-   °		137-0200	138-0200	137-0285	138-0285
Single Low Torque (MT -10)	-10°	0°	+2°		137-0198	138-0198	137-0289	138-0289
Single (LBBT MT)	-27°	2°	0°				137-0291	138-0291

\* Indicates Nonconvertible Tube

All Headgear is .045

### Micro Tubes (cont.)













Triple/Gingival Headgear

Triple/Occlusal Headgear

**Combination**/ **Gingival Headgear** 

**Combination**/ **Occlusal Headgear** 

Double Rectangular

**Special** 

Double Rectangular Upper Second Single

### Micro Bondables (Available 10 ea.)

_	_	Distal				<b>B</b> ( <b>N</b>		
Гуре	Iorque	Offset	Ang.	Headgear		Part Nu	Imbers	
Upper First Molar					.018 L	.018 R	.022 L	.022 R
Single (SS RMT)	-14°	۱4°	0°		437-0134	437-0034	438-0156	438-0056
Single (SS MT)	-9°	10°	0°		437-0132	437-0032	438-0155	438-0055
Combination (OBT RMT)	-14°	4°	0°	Occlusal			438-0160	438-0060
Combination (CBT MT)	-9°	10°	+5°	Gingival			438-0140	438-0040
Combination (CBT RMT)	-14°	4°	0°	Gingival			438-0148	438-0048
Combination (CBT MT E-2)	-14°	4°	+2°	Gingival			438-0141	438-0041
Double Rectangular (UDBT NT MT) No HG Tube	-14°	4°	0°		437-0142	437-0042	438-0174	438-0074
Triple (TBT RMT)	-14°	4°	0°	Occlusal			438-0165	438-0065
Triple (TBT MT)	-9°	10°	+5°	Occlusal	437-0138	437-0038		
Triple (TBT MT 0°)	-9°	10°	0°	Occlusal			438-0164	438-0064
Upper Second Molar					.018 L	.018 R	.022 L	.022 R
Single (MT)	-9°	10°	+5°		437-0144	437-0044	438-0177	438-0077
Single (MT 0°)	-9°	10°	0°		437-0143	437-0043	438-0176	438-0076
Single (RMT)	-14°	۱4°	0°		437-0148	437-0048	438-0185	438-0085
Single (DT 0%0° MT)	-14°	0°	0°				438-0184	438-0084
Double Rectangular Special (RSPEC)	-14°	4°	0°				438-0188	438-0088

All Headgear is .045











Lower First Triple

Lower First Single

Lower Second Single

Lower Second Single

Lower First Double

### Micro Bondables (Available 10 ea.)

		Distal						
Туре	Torque	Offset	Ang.	Headgear		Part Nu	Imbers	
Lower First Molar					.018 L	.018 R	.022 L	.022 R
Single (SS RMT)	-30°	4°	- °		437-0108	437-0008	438-0110	438-0010
Single Low Torque	-10°	0°	0°		437-0110	437-0010	438-0112	438-0012
Single (STD MT)	-30°	0°	+2°		437-0104	437-0004	438-0103	438-0003
Double (DBT MT)	-30°	0°	+2°				438-0116	438-0016
Double (DBT RMT)	-30°	4°	- °		437-0114	437-0014	438-0119	438-0019
Double (RMT Balanced)	-30°	4°	- °				438-0120	438-0020
Lower Second Molar					.018 L	.018 R	.022 L	.022 R
Single (MT)	-31°	0°	+2°		437-0116	437-0016	438-0126	438-0026
Single (RMT)	-30°	4°	-   °		437-0120	437-0020	438-0131	438-003 I
Single Low Torque (MT -10)	-10°	0°	+2°		437-0121	437-0021	438-0133	438-0033
Single (LBBT MT)	-27°	2°	0°				438-0134	438-0034

\* Indicates Nonconvertible Tube

All Headgear is .045

### **BUCCAL TUBES**

### Andrews Molar Translation Tubes

To eliminate the need for wire bending for teeth requiring bodily movement, Dr. Andrews designed Molar Translation tubes. They possess the same features as standard brackets plus a power arm, counterangulation and counterrotation. Maxillary molar Translation tubes also include counterinclination. The added features are designed to automatically provide the countermoments needed for translation when used with unbent but deflected archwires and with force applied to the power arm hook. Molar Translation (T) tubes are available in three magnitudes. Prescription is based on distance: T1 for 2 mm or less; T2 for 2 to 4 mm; T3 for more than 4 mm. T4 brackets are for maxillary molars when only the upper arch requires 1st premolar extractions.

**Counterangulation**: Discourages tipping during movement and over-angulates at the conclusion of movement in expectation of angulation rebound.

**Counterrotation:** Discourages rotation during movement and over-rotates at the conclusion of movement in expectation of rotational rebound.

**Counterinclination:** Maxillary molars are the only threerooted teeth. When attempting mesial movement, counterinclination is needed to offset drag of the dominant lingual root and keep the crown's lingual cusp from invading the freeway space. **Power Arm:** Each Translation bracket is designed to ensure that the sum of the length of the power arm and of the bracket slot closely approximates the distance between the crown's FA point and the tooth's center of resistance. When both the power arm and the slot are simultaneously activated, they provide the countermoments needed for the mesiodistal aspects of translation.

**T4 bracket:** Even though they have the (T) designation, T4 brackets technically are not translation brackets. They are for molars that, at the beginning of treatment, are 7 mm mesially related and are to remain that way. They have zero angulation and offset and 9° inclination to accommodate the compromised occlusion.

**Identification**: The number of raised dots on the power arm (one, two, or three) designates the bracket's magnitude, T1, T2, or T3. The T4 bracket has no power arm and is distinctive from all other maxillary straight-wire molar tubes in that it has no offset.

**Options:** Available loose, direct bond, or prewelded. Bondable tube options are foil mesh or micro mesh pads.



### Andrews Molar Translation Tubes (Available 10 ea.)

		Distal							
Туре	Torque	Offset	Ang.	Headgear	Technique		Part N	umbers	
Upper First Molar						.018 L	.018 R	.022 L	.022 R
Combination	-14°	14°	+2°	.045 Gingival	Translation 2			137-0045	138-0045
Upper Second Molar						.018 L	.018 R	.022 L	.022 R
Single	-14°	4°	+2°		Translation 2			137-0173	138-0173
		Distal		Channel					
Туре	Torque	Offset	Ang.	Cap	Technique		Part N	umbers	
Lower First Molar						.018 L	.018 R	.022 L	.022 R
Single – PA	-30°	4°	-   °	Yes	Translation 2, power arm			37-02	38-02
Single – PA	-30°	4°	-   °	Yes	Translation 2, power arm	137-0126	138-0126	137-0207	138-0207
Lower Second Molar						.018 L	.018 R	.022 L	.022 R
Single – PA	-31°	6°	+2°		Translation 3, power arm			137-0281	38-028

### Section Four

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# Bands & Crowns

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- page 4 Standard High-Retention First & Second Molars
- page 5 Trimline First & Second Molars
- page 6 Washbon First & Second Molars
- page 7 Bicuspids
- page 8 UltiMAX Maximum-Retention Molars & Stainless Steel Crowns

### SECTION 4 PAGE 2

### **BANDS & CROWNS**

### **Precision Placement**

Through years of research with computer-aided engineering technology, Ormco has refined the placement of all buccal tubes specific to each type of band we offer. The benefits to you include:

 The truest expression of the geometries built into every buccal tube.

• Precision placement takes into account all the variables: band size, buccal tube dimensions and prescription.







Easy-to-Read Laser Marking

Microetched for Dependable Performance

### **Prewelding Services**

Ormco bands can be prewelded in "standard weld position" or "custom weld position," described and illustrated below.

### Standard Weld Position

The drawings below provide an overview of the various standard positions and illustrate the attachment welded at  $0^{\circ}$  angulation to the band (the bracket slot will be parallel to the occlusal edge of the band).

### **Custom Weld Position**

Custom assemblies are Ormco brackets and bands prewelded in other than standard position. If you need a custom placement, indicate direction and amount of change from standard (e.g., 0.5 mm more occlusal). If specifying a custom angulation, indicate a plus (+) for distal root tip or a minus (-) for mesial root tip. If no position criterion is provided on the order, it will be welded in the standard position. **Custom items are not returnable**.



Total Bands

# Ultima<sup>®</sup> First Molars

Ultima molar bands give you the best of everything: ease of fitting, ease of adaptation and security of retention.

- Stiffness and adaptability are balanced.
- Proximal walls are straight for fast seating.
- Mesiobuccal contour at the gingival aids retention.
- Available in four larger sizes and closer graduations than other bands. Proportioned in size and occlusogingival height.

Band kit distribution – each kit contains half rights and half lefts.



### Ultima First Molar Kits

Band Size	5	6	7	8	9	10	Ш	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	
Trial	2	2	2	2	2	2	2	2	2	2	2	4	4	4	4	4	4	6	6	6	6	4	4	4	4	2	2	2	2	2	2	2	100
Introductory	2	2	2	2	2	2	4	4	6	6	6	8	10	10	10	10	12	12	12	10	10	10	8	8	6	6	6	4	4	2	2	2	200
Professional	2	2	4	4	6	6	8	8	10	14	14	16	20	20	24	24	26	26	24	24	20	20	18	14	12	10	8	6	4	2	2	2	400
Master	4	4	6	6	10	10	12	18	24	28	32	34	40	44	48	50	50	50	50	50	44	40	36	26	24	20	14	10	4	4	4	4	800
Refill												6	8	8	8	10	10	10	10	8	8	8	6										100

### SECTION 4 PAGE 4

### **BANDS & CROWNS**

# Standard High-Retention First Molars

- Anatomically contoured with a buccal cusp indent groove and lingual cusp indent contour.
- Maximum band/tooth adaptation and no occlusal interference.
- Fits over the height of greatest contour while the lingual seats high, toward the gingiva.
- Interior of bands are microetched to increase retention.

Band kit distribution - each kit contains half rights and half lefts.

### Standard First Molar Kits



Total Bands

Total Bands

Band Size	I	2	3	4	5	6	7	8	9	10	Ш	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	
Trial	2	2	2	2	2	2	2	2	2	2	2	4	4	4	4	4	4	6	6	6	6	4	4	4	4	2	2	2	2	2	2	2	100
Introductory	2	2	2	2	2	2	4	4	6	6	6	8	10	10	10	10	12	12	12	10	10	10	8	8	6	6	6	4	4	2	2	2	200
Professional	2	2	4	4	6	6	8	8	10	14	14	16	20	20	24	24	26	26	24	24	20	20	18	14	12	10	8	6	4	2	2	2	400
Master	4	4	6	6	10	10	12	18	24	28	32	34	40	44	48	50	50	50	50	50	44	40	36	26	24	20	14	10	4	4	4	4	800
Refill												6	8	8	8	10	10	10	10	8	8	8	6										100

# Standard High-Retention Second Molars

- Anatomical occlusogingival buccal design, including lingual/buccal cusp indentation, for proper band/tooth fit.
- Band seats at the height of the contour, avoiding occlusal interference.
- Contour prevents gingival impingement.
- Interior of bands are microetched to increase retention.

Band kit distribution – each kit contains half rights and half lefts.

### Standard Second Molar Kits

Band Size	I	2	3	4	5	6	7	8	9	10	Ш	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	
Trial	2	2	2	2	2	2	2	2	2	2	2	4	4	4	4	4	4	6	6	6	6	4	4	4	4	2	2	2	2	2	2	2	100
Introductory	2	2	2	2	2	2	4	4	6	6	6	8	10	10	10	10	12	12	12	10	10	10	8	8	6	6	6	4	4	2	2	2	200
Professional	2	2	4	4	6	6	8	8	10	14	14	16	20	20	24	24	26	26	24	24	20	20	18	14	12	10	8	6	4	2	2	2	400
Master	4	4	6	6	10	10	12	18	24	28	32	34	40	44	48	50	50	50	50	50	44	40	36	26	24	20	14	10	4	4	4	4	800
Refill												6	8	8	8	10	10	10	10	8	8	8	6										100



# **Trimline** First Molars

- Straight reduced proximal walls for fast, easy seating.
- Designed to fit securely below marginal ridges and to seat over height of contour.
- Accurate size gradation positions buccal and lingual cusp indent for precise fit.
- Balanced stiffness and adaptability.

Band kit distribution - each kit contains half rights and half lefts.

### Trimline First Molar Kits

El12UR.	Allel
	AVEL R-

Total Bands

Band Size	5	6	7	8	9	10	Ш	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	
Trial	2	2	2	2	2	2	2	2	2	2	2	4	4	4	4	4	4	6	6	6	6	4	4	4	4	2	2	2	2	2	2	2	100
Introductory	2	2	2	2	2	2	4	4	6	6	6	8	10	10	10	10	12	12	12	10	10	10	8	8	6	6	6	4	4	2	2	2	200
Professional	2	2	4	4	6	6	8	8	10	14	14	16	20	20	24	24	26	26	24	24	20	20	18	14	12	10	8	6	4	2	2	2	400
Master	4	4	6	6	10	10	12	18	24	28	32	34	40	44	48	50	50	50	50	50	44	40	36	26	24	20	14	10	4	4	4	4	800
Refill												6	8	8	8	10	10	10	10	8	8	8	6										100

# **Trimline Second Molars**

- Easy to seat.
- · Less contouring and more malleability.
- Balanced stiffness and adaptability.
- Designed to come to a positive stop at marginal ridges.

Band kit distribution - each kit contains half rights and half lefts.



### Trimline Second Molar Kits

Upper Size	97	<b>98</b>	99	00	I	2	3	4	5	6	7	8	9	10	Ш	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
Lower Size	I	2	3	4	5	6	7	8	9	10	Ш	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	
Trial	2	2	2	2	2	2	2	2	2	2	2	4	4	4	4	4	4	6	6	6	6	4	4	4	4	2	2	2	2	2	2	2	100
Introductory	2	2	2	2	2	2	4	4	6	6	6	8	10	10	10	10	12	12	12	10	10	10	8	8	6	6	6	4	4	2	2	2	200
Professional	2	2	4	4	6	6	8	8	10	14	14	16	20	20	24	24	26	26	24	24	20	20	18	14	12	10	8	6	4	2	2	2	400
Master	4	4	6	6	10	10	12	18	24	28	32	34	40	44	48	50	50	50	50	50	44	40	36	26	24	20	14	10	4	4	4	4	800
Refill												6	8	8	8	10	10	10	10	8	8	8	6										100

### SECTION 4 PAGE 6

### **BANDS & CROWNS**

# Washbon<sup>®</sup> First Molars

For the ultimate in custom-fitting anatomy, shape and retention.

- Ormco's most popular molar band.
- Precision shaped to tooth anatomy for snug, secure fit and superior retention.
- Right and left anatomy is completely proportioned in all sizes.
- Exclusive Orthin process for one-third thinner interproximal sides.
- Buccal surface has increased height for greater flexibility in positioning attachments.

Band kit distribution - each kit contains half rights and half lefts.

### Washbon First Molar Kits



Total Bands

Total Bands

Band Size	I	2	3	4	5	6	7	8	9	10	Ш	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	
Trial	2	2	2	2	2	2	2	2	2	2	2	4	4	4	4	4	4	6	6	6	6	4	4	4	4	2	2	2	2	2	2	2	100
Introductory	2	2	2	2	2	2	4	4	6	6	6	8	10	10	10	10	12	12	12	10	10	10	8	8	6	6	6	4	4	2	2	2	200
Professional	2	2	4	4	6	6	8	8	10	14	14	16	20	20	24	24	26	26	24	24	20	20	18	14	12	10	8	6	4	2	2	2	400
Master	4	4	6	6	10	10	12	18	24	28	32	34	40	44	48	50	50	50	50	50	44	40	36	26	24	20	14	10	4	4	4	4	800
Refill												6	8	8	8	10	10	10	10	8	8	8	6										100

# Washbon Second Molars

For the ultimate in custom-fitting anatomy, shape and retention.

- Occlusal festoon at distal portion of upper 2nd molar band eliminates metal overhang and occlusal interface.
- Right and left anatomy is completely proportioned in all dimensions for positive fit.
- Material thickness is tapered from occlusal to gingival, permitting band to easily pass the contact points when driven.

Band kit distribution – each kit contains half rights and half lefts.

# JII2USR RELIE

### Washbon Second Molar Kits

Upper Size	97	<b>98</b>	99	00	Т	2	3	4	5	6	7	8	9	10	Ш	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
Lower Size	I	2	3	4	5	6	7	8	9	10	Ш	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	
Trial	2	2	2	2	2	2	2	2	2	2	2	4	4	4	4	4	4	6	6	6	6	4	4	4	4	2	2	2	2	2	2	2	100
Introductory	2	2	2	2	2	2	4	4	6	6	6	8	10	10	10	10	12	12	12	10	10	10	8	8	6	6	6	4	4	2	2	2	200
Professional	2	2	4	4	6	6	8	8	10	14	14	16	20	20	24	24	26	26	24	24	20	20	18	14	12	10	8	6	4	2	2	2	400
Master	4	4	6	6	10	10	12	18	24	28	32	34	40	44	48	50	50	50	50	50	44	40	36	26	24	20	14	10	4	4	4	4	800
Refill												6	8	8	8	10	10	10	10	8	8	8	6										100

# Ormco Bicuspids

### Upper Bicuspid Universal Kits

Band Size	I	2	3	4	5	6	7	8	9	10	Ш	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	
Trial	2	2	2	2	2	2	2	2	2	2	2	4	4	4	4	4	4	6	6	6	6	4	4	4	4	2	2	2	2	2	2	2	100
Introductory	2	2	2	2	2	2	4	4	6	6	6	8	10	10	10	10	12	12	12	10	10	10	8	8	6	6	6	4	4	2	2	2	200
Professional	2	2	4	4	6	6	8	8	10	14	14	16	20	20	24	24	26	26	24	24	20	20	18	14	12	10	8	6	4	2	2	2	400
Master	4	4	6	6	10	10	12	18	24	28	32	34	40	44	48	50	50	50	50	50	44	40	36	26	24	20	14	10	4	4	4	4	800
Refill												6	8	8	8	10	10	10	10	8	8	8	6										100

### Lower First Bicuspid Kits

Band Size	I	2	3	4	5	6	7	8	9	10	Ш	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	
Trial	2	2	2	2	2	2	2	2	2	2	2	4	4	4	4	4	4	6	6	6	6	4	4	4	4	2	2	2	2	2	2	2	100
Introductory	2	2	2	2	2	2	4	4	6	6	6	8	10	10	10	10	12	12	12	10	10	10	8	8	6	6	6	4	4	2	2	2	200
Professional	2	2	4	4	6	6	8	8	10	14	14	16	20	20	24	24	26	26	24	24	20	20	18	14	12	10	8	6	4	2	2	2	400
Master	4	4	6	6	10	10	12	18	24	28	32	34	40	44	48	50	50	50	50	50	44	40	36	26	24	20	14	10	4	4	4	4	800
Refill												6	8	8	8	10	10	10	10	8	8	8	6										100

### Lower Second Bicuspid Kits

Band Size	5	6	7	8	9	10	Ш	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	
Introductory	2	2	2	4	4	8	8	10	10	12	14	16	16	14	14	12	10	10	8	6	4	2	2	2	2	2	2	2	200
Professional	2	4	4	6	10	14	16	20	24	26	28	32	32	30	28	26	24	20	14	12	8	6	4	2	2	2	2	2	400
Master	4	8	10	14	20	28	36	38	46	52	56	64	64	60	58	52	44	40	28	24	16	12	10	6	4	2	2	2	800

Band kit distribution - each kit contains half rights and half lefts.



Total Bands

Total Bands

Total Bands

### SECTION 4 PAGE 8

# UltiMAX Maximum-Retention Molars

An alternative to crowns, the sturdy design is 100% thicker than standard bands and 40% thicker than other reinforced bands, delivering the unparalleled strength required for use with Class II appliances. Plus, UltiMAX offers all the known benefits of bands versus crowns:

- More aesthetic.
- Easier to place, remove and clean up.
- More hygienic and comfortable with less gingival irritation.



### UltiMAX Maximum-Retention Molar Kits

Total Bands

Band Size	5	6	7	8	9	10	II	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
Trial	2	2	2	2	2	2	2	4	4	4	4	6	6	6	6	6	4	4	4	4	4	4	4	4	4	4	100
Introductory	2	2	2	2	2	2	4	6	8	10	10	12	12	12	12	12	12	12	12	12	10	10	8	6	4	4	200
Professional	4	4	4	4	4	4	8	12	16	20	20	24	24	24	24	24	24	20	24	24	20	20	16	12	8	8	400
Master	6	6	6	6	8	10	16	24	32	40	40	50	50	50	50	50	50	40	50	50	40	40	32	24	10	10	800
Refill											4	6	8	10	10	12	12	10	10	8	6	4					100

Band kit distribution - each kit contains half rights and half lefts.

# Stainless Steel Crowns

Tooth	I	2	3	4	5	6	7	8
Lower lst Bicuspid								
Left	414-0001	414-0002	414-0003	414-0004	414-0005	414-0006		
Right	414-0101	414-0102	414-0103	414-0104	414-0105	414-0106		
Upper Ist Molar								
Left	421-0001	421-0002	421-0003	421-0004	421-0005	421-0006	421-0007	421-0008
Right	421-0101	421-0102	421-0103	421-0104	421-0105	421-0106	421-0107	421-0108
Lower Ist Molar								
Left	422-0001	422-0002	422-0003	422-0004	422-0005	422-0006	422-0007	422-0008
Right Packs of 5	422-0101	422-0102	422-0103	422-0104	422-0105	422-0106	422-0107	422-0108

## Section Five

# Archwires

page	2	Wire Stiffness Comparison Guide
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page	4	Alloys
page	8	Damon Arch Form
page	10	Orthos Arch Form
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page	17	Vari-Simplex & Teardrop Looped
		Arch Forms
page	18	Tru-Arch Arch Form
page	24	Standard Ar <mark>ch Form</mark>
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page	27	Straight Length Wire
page	28	Reverse Curve Wire

### Wire Stiffness Comparison Guide



\* Suggested use for degree of malocclusion.

### Wire Stiffness Comparison Guide (cont.)

Wire Type	Severe* Mal	occlusion	Мо	derate* Maloo	clusion		M	1ild* Maloccl	usion	
	200 400	600 800	1000	1200 1400	1600 180	0 2000	2200 2	400 2600	2800 3000	3200
COPPER NI-TI 35°C	.016 .018 .016 x .022 .017 x .017 .017 x .025 .019 x .025 .020 x .020 .021 x .025									
COPPER NI-TI 40°C	.016 x .022 .017 x .025 .019 x .025 .021 x .025									
D-RECT®	.016 x .022 .017 x .025 .018 x .025 .019 x .02 .021 x .02	5								
TURBO WIRE™	.017 x .025 .021 x .025									
<b>RESPOND</b> ®	.0155 .0175 .0195 .0215									

\* Suggested use for degree of malocclusion.

### Kleen Pak<sup>™</sup> Wire Dispenser System

Archwires individually packaged and sealed in the Kleen Pak<sup>™</sup> and Patient Pack<sup>™</sup> single-patient systems enhance your infection control procedures by helping to protect against airborne contaminants and cross contamination.

This attractive archwire dispenser can be placed on any flat surface or conveniently wall mounted. Dispenser fits both Kleen Pak and Patient Pack systems.

Dispenser 771-0012



# Copper Ni-Ti®



"New alloys, geared to generate biologically consistent forces, enable the clinician to provide controlled and predictable tooth movement. Copper Ni-Ti demonstrates precise transformation temperature control, is more resistant to permanent deformation and exhibits a smaller drop in unloading force than other nickel-titanium alloys. By applying the principles of variable transformation temperature orthodontics with Copper Ni-Ti, I am able to control tooth movement in my practice more efficiently." – Rohit C. L. Sachdeva, BDS, M Dent Sc

### Copper Ni-Ti<sup>®</sup>

Copper Ni-Ti wires consist of nickel, titanium, copper and chromium. The addition of copper to the alloy enhances the thermal-reactive properties of the wire. Ormco offers four different Copper Ni-Ti series: Damon Copper Ni-Ti and 27°C, 35°C, and 40°C Copper Ni-Ti. The higher the temperature transition (TTR), the lower the relative forces delivered by the wire. The Copper Ni-Ti series provides a wide range of options in selecting and delivering the force of choice and the wire size for the dictates of the case and treatment modality.

- Unloading (springback) properties facilitate fast, efficient tooth movement.
- Due to the lower hysteresis of Copper Ni-Ti, the loading forces are smaller than their nickeltitanium counterparts, making wire engagement in the bracket slot easier.
- A unique unloading profile provides continuous forces, even at very small deflections (Fig. 1).
- More resistant to permanent deformation than other nickel-titanium wires.
- Batch-to-batch consistency, with a very precise temperature range, ensures true heat activation and consistent, predictable results (Fig. 2).
- Easy to engage, even in the most severe cases.



**Damon Copper Ni-Ti** is specifically calibrated for use with the Damon System. Additionally, the surface finish of the wires is smoother to maximize sliding characteristics.

27°C Copper Ni-Ti has a higher relative stiffness than 35°C or 40°C Copper Ni-Ti. As such, clinicians have found it to perform well in round cross-sections or when higher forces or stiffness are desired in rectangular cross-sections.

**35°C Copper Ni-Ti**, with its TTR close-to-mouth temperature, is soft at room temperature to facilitate engagement. It falls within a very efficient force range when used in the larger round or all rectangular sizes.

40°C Copper Ni-Ti delivers the lowest relative force of all nickel-titanium archwires. For initial alignment, it is best used in the larger rectangular sizes. As such, it may be indicated in very severe cases or in periodontally compromised patients.

#### **Comparing Loading/Unloading Curves+**



Neo Sentalloy .017 x .025

Fig. 1 – Initial deflection force is lower with Copper Ni-Ti, making it easier to engage severely malposed teeth. As the wire springs back, more-consistent forces are maintained, even in minor deflections.

<sup>†</sup> Data taken from AJODO 2001; 119: 63-73

#### Transformation Temperature with Standard Deviations\*



Fig. 2 – Most so-called heat-activated wires have wide manufacturing tolerances, forcing their transformations to be set near room temperature. Thus they are fully active well before insertion in the mouth. The precision of Copper Ni-Ti allows the wire to be easily engaged before full activation at body temperature, thus true heat activation.

\* Data available on request.

\*\* Bioforce is a registered trademark of GAC Corp. Nitinol is a registered trademark of 3M Corp.

# TMA®

### Space Closure in the Age of "Variable Modulus" Mechanics

Ormco helped develop the original Beta Titanium wire more than two decades ago. Over the years, Ormco refined the TMA manufacturing process to a science in order to deliver the largest number of sizes and options available. Today, the TMA brand of Beta Titanium remains the industry standard for consistency and quality.

With half the force but twice the working range of stainless steel, TMA has indications for all stages of treatment. Because of its intermediate stiffness between stainless steel and the nickel-titanium memory alloys, it is especially beneficial as a main working archwire. TMA has good flexibility and springback characteristics along with predictable forces for consistent control.

- Initial Stage TMA is recommended for tooth alignment, space closure and curve of Spee. Ormco offers preformed Reverse Curve TMA and Reverse Curve TMA with "T" Loops.
- Intermediate Stage TMA is recommended for early torque control with moderate forces. TMA also provides complete manipulation of the wire for dimensional control. Indications include use as an ideal retraction arch while exerting more-constant moderate forces over a longer period of time.
- Final Stage TMA is used as a detailing wire with moderate force.

### Low-Friction and Colored TMA®

If sliding mechanics and minimum friction are your goals, then you will appreciate the benefits of Low-Friction and Colored Low-Friction TMA. TMA colors also offer patients exciting new looks.

"Nothing could be more basic to our science than the control of space. Quite simply, in order to align teeth, we are first concerned with making enough space to fit them all in, then we close what is left over after we have aligned them. One can easily picture the orthodontic pioneers wrestling with this problem, much as we do today. The only difference is that we have more options today, options as to techniques, metals, forces and desired side effects. Understanding the uses, limitations, applications and anticipated actions of this wire can only improve its value to any practitioner. For this one wire can offer tremendous efficiency of time and force utilization."

- M. Alan Bagden, DMD



### SECTION 5 PAGE 7

### Ni-Ti<sup>®</sup>

Ormco's trademark nickel-titanium wire, Ni-Ti has the resiliency and high springback necessary during treatment. Ni-Ti is indicated for initial leveling, aligning and rotational control.

### Stainless Steel

Ormco stainless steel wires are made of 300 series alloys to high tensile strengths in excess of 300,000 psi. The wires are manufactured to the highest quality for dimensional precision and surface finish, providing optimum forces for arch stability, resilience, formability and sliding mechanics.

### Turbo Wire™

Turbo Wire is a nine-strand rectangular braided Ni-Ti, with low stiffness and great flexibility. Turbo Wire is recommended as an initial wire to unravel and level while controlling torque and engaging brackets fully. It is also effective as a finishing wire, retaining torque but allowing vertical elastic use.

### D-Rect<sup>®</sup>

D-Rect is an eight-strand braided stainless steel wire. It can be used throughout treatment where lighter forces with dimensional control are indicated.



### Triple Flex<sup>™</sup>

Triple Flex is a three-strand twisted stainless steel wire. It has moderately light forces and is used for initial leveling and alignment.

### Titanium Niobium FA (Finishing Archwire)

Titanium Niobium FA is an innovative archwire designed for precision tooth-to-tooth finishing. The unique metallurgical properties of Titanium Niobium FA make it a precision intraoral detailing option. At 80% of the stiffness of TMA, it is perfect for holding bends, yet light enough not to override the arch-toarch relationship. It is recommended for use with finishing elastics and even though it feels soft and pliable, it possesses a resiliency after bending that is equal to stainless steel.

### Respond®

Respond is a stainless steel coaxial wire. It is recommended as an initial archwire to level and align because of its light, gentle forces. Respond is also very flexible and possesses great springback characteristics. One of the benefits of Respond includes great control with larger initial wire diameters.

Dead Soft Respond is indicated for fixed lingual retainers.

# Damon Arch Form

Dr. Dwight Damon developed this arch form after carefully studying 7,000 photographs of exceptional smiles. Dr. Damon believes that a great smile is exemplified by six well-positioned anterior teeth and an arch form that displays the first bicuspid, second bicuspid, and the mesiobuccal surface of the first molar when viewed from the anterior. This arch form prevents the "dark corner syndrome" in the posterior of the mouth.

More importantly, Dr. Damon feels that an arch form must function in a manner consistent with gnathologic principles. After he carefully evaluated several hundred patients and their articulated models, tomograms and headfilms, it was apparent that this arch form enhances dental function.

The combination of the Damon arch form with the new generation of low-friction brackets and low-force titanium wires expands nonextraction treatment options. This creates a positive impact on patient facial profile.





"In the final phase of treatment, Low-Friction TMA has become an invaluable part of my wire armamentarium. Low-Friction TMA's greater flexibility allows you to more easily bend torque in the archwire with moderate forces without hindering your ability to close the slide. It is also easier to insert the wire and close the slide than stainless steel when small detail bends are desired at the end of treatment." – Dwight Damon, DDS, MSD

### Damon Arch Form (cont.)

### Copper Ni-Ti® w/stops

All Damon Copper Ni-Ti cross-sections come with archwire stops, pre-loaded, for your convenience. Stops are easily crimped with arch-bending, How or Weingart pliers.

#### Wire Size

Damon	Part Number
.013	205-1909
.014	205-1902
.016	205-1903
.018	205-1904
.014 x .025	210-1905
.016 x .025	210-1906
.018 x .025	210-1907

### Ni-Ti®- Pre-Torqued

Superb wires for division 2 cases where intrusion and additional torque are indicated. Wires have 20° of anterior torque built in at 34 mm and 38 mm lengths.

#### **Reverse Curve**

Anterior Torq. Lnth.	Wire Size		
Damon	.016 x .025	.017 x .025	.019 x .025
34 mm	216-3416	216-3417	216-3419
38 mm	216-3816	216-3817	216-3819
Flat			

#### Flat

Anterior Torg. Lnth. Wire Size

Damon	.016 x .025	.017 x .025	.019 x .025
34 mm	227-0341	227-0342	227-0343
38 mm	227-0381	227-0382	227-0383

### Ni-Ti<sup>®</sup>– Reverse Curve

Ideal when only intrusion is indicated. Comes in Packs of 5.

Arch Form	Wire Size		
Damon	.016 x .025	.017 x .025	.019 x .025
	216-3806	216-3807	216-3809

### TMA<sup>®</sup>– Low-Friction Colored

Wire Size	Color	
Damon	Purple	Honeydew
.016 × .025	227-1141	227-1151
.017 × .025	227-1142	227-1152
.019 x .025	227-1143	227-1153

Packs of 5

### TMA®- Low-Friction

Wire Size

Damon	Part Number	
.016 × .025	227-1111	
.017 × .025	227-1112	
.019 × .025	227-1113	

### **Stainless Steel**

Wire Size

Damon	Part Number	
.016 x .025	227-1067	
.019 x .025	227-1071	

### Stainless Steel – Posted

Arch Form	Wire Size	
Damon	.016 x .025	.019 x .025
24 mm	227-1026	227-1027
26 mm	227-1028	227-1029
28 mm	227-1030	227-1031
30 mm	227-1032	227-1033
32 mm	227-1034	227-1035
34 mm	227-1036	227-1037
36 mm	227-1038	227-1039
38 mm	227-1040	227-1041
40 mm	227-1042	227-1043

Stainless steel wires are packaged in Patient Packs™of IO. All wires are packaged in Kleen Paks™of IO unless otherwise noted.

# Orthos Arch Form

The Orthos\* archwire shape is unique because it was derived from the skeletal and dental anatomy of typical orthodontic cases.

Orthos archwires combine a comprehensive selection of various modulus alloys with a fully integrated arch form designed to synchronize with Orthos brackets and buccal tubes. Through Computer Aided Engineering (CAE), both mandibular and maxillary arch forms are coordinated to the complete seven-toseven Orthos system. Orthos, Orthos AP and Bios are designed to coordinate with the same Orthos arch form.

### Archwire Template – Orthos

Part Number 219-0000

### Copper Ni-Ti<sup>®</sup> 27°C

Arch Form	Wire Size
Orthos – No Dimple	.018
Upper Small	219-0204
Lower Small	219-0104
Upper Large	219-0404
Lower Large	219-0304
Orthos – Dimple	
Upper Small	219-7210
Lower Small	219-7202
Upper Large	219-7226
Lower Large	219-7218



\*Distributed in Europe as Ortho-CIS.

### Orthos<sup>®</sup> Arch Form (cont.)

#### Copper Ni-Ti® 35°C

Arch Form	Wire Size							
Orthos – No Dimple	.016	.018	.017 x .017	.020 x .020	.016 x .022	.017 x .025	.019 x .025	.02l x .025
Upper Small	219-4203	219-4204	219-4209	219-4211	219-4208	219-4210	219-4212	219-4213
Lower Small	219-4103	219-4104	219-4109	219-4111	219-4108	219-4110	219-4112	219-4113
Upper Large	219-4403	219-4404	219-4409	219-4411	219-4408	219-4410	219-4412	219-4413
Lower Large	219-4303	219-4304	219-4309	219-4311	219-4308	219-4310	219-4312	219-4313
Orthos – Dimple								
Upper Small					219-7311		219-7315	
Lower Small					219-7303		219-7307	
Upper Large					219-7327		219-7331	
Lower Large					219-7319		219-7323	

#### 40°C

Arch Form	Wire Size			
Orthos	.016 x .022	.017 x .025	.019 x .025	.02l x .025
Upper Small	219-5208	219-5210	219-5212	219-5213
Lower Small	219-5108	219-5110	219-5112	219-5113
Upper Large	219-5408	219-5410	219-5412	
Lower Large	219-5308	219-5310	219-5312	

### Ni-Ti®

#### Arch Form Wire Size

Orthos	.016	.018	.016 x .022	.017 x .025	.019 x .025
Upper Small	219-3203	219-3204	219-3208	219-3210	219-3212
Lower Small	219-3103	219-3104	219-3108	219-3110	219-3112
Upper Large	219-3403	219-3404	219-3408	219-3410	219-3412
Lower Large	219-3303	219-3304	219-3308	219-3310	219-3312

### Turbo Wire<sup>™</sup>

Arch Form	Wire Size
Orthos	.017 x .025
Upper Small	219-6210
Lower Small	219-6110
Upper Large	219-6410
Lower Large	219-6310

#### TMA®

Arch Form	Wire Size			
Orthos	.016 x .022	.017 x .025	.019 x .025	.02l x .025
Upper Small	219-2208	219-2210	219-2212	219-2213
Lower Small	219-2108	219-2110	219-2112	219-2113
Upper Large	219-2408	219-2410	219-2412	219-2413
Lower Large	219-2308	219-2310	219-2312	219-2313

### Orthos<sup>®</sup> Arch Form (cont.)

### Titanium Niobium FA

Arch Form	Wire Size		
Orthos	.016 x .022	.017 x .025	.019 x .025
Upper Small	219-8208	219-8210	219-8212
Lower Small	219-8108	219-8110	219-8112
Upper Large	219-8408	219-8410	219-8412
Lower Large		219-8310	219-8312

### Stainless Steel

#### Round

Arch Form	Wire Size		
Orthos	.016	.018	.020
Upper Small	219-1570	219-1571	219-1572
Lower Small	219-1560	219-1561	219-1562
Upper Large	219-1590	219-1591	219-1592
Lower Large	219-1580	219-1581	219-1582

#### Rectangular

Arch Form	Wire Size				
Orthos	.016 x .022	.017 x .025	.018 x .025	.019 x .025	.02l x .025
Upper Small	219-1208	219-1210	219-1211	219-1212	
Lower Small	219-1108	219-1110	219-1111	219-1112	219-1113
Upper Large	219-1408	219-1410	219-1411	219-1412	219-1413
Lower Large	219-1308	219-1310	219-1311	219-1312	219-1313

# **Broad Arch Form**

Treatment Indications:

- Used throughout treatment for a wide variety of archwire progressions to simplify archwire adjustment while maintaining ideal arch form.
- Used with preadjusted appliances with built-in in/out relationships.
- Final Phase: Slightly expanded nature is designed to account for natural settling after removal where tendency toward narrowing occurs.





### Broad Arch Form (cont.)

#### Copper Ni-Ti 27°C

#### **Arch Form** Wire Size Broad .014 .016 .018 .016 x .022 .017 x .025 .019 x .025 Upper Small 205-0040 205-0044 205-0048 210-0902 210-0903 210-0905 205-0042 205-0050 211-0902 211-0903 211-0905 Lower Small 205-0046 210-0912 Upper Large 205-0041 205-0045 205-0049 210-0913 210-0915 Lower Large 205-0043 205-0047 205-0051 211-0912 211-0913 211-0915

#### 35°С

#### Arch Form Wire Size

Broad	.016	.018	.017 x .017	.020 x .020	.016 x .022	.017 x .025	.019 x .025	.02l x .025
Upper Small	205-0064	205-0068	210-0921	210-0927	210-0922	210-0923	210-0925	210-0926
Lower Small	205-0066	205-0070	211-0921	211-0927	211-0922	211-0923	211-0925	211-0926
Upper Large	205-0065	205-0069	210-0931	210-0937	210-0932	210-0933	210-0935	210-0936
Lower Large	205-0067	205-0071	211-0931	211-0937	211-0932	211-0933	211-0935	211-0936

#### 40°C

Arch Form	Wire Size			
Broad	.016 x .022	.017 x .025	.019 x .025	.02l x .025
Upper Small	210-0942	210-0943	210-0945	
Lower Small	211-0942	211-0943	211-0945	
Upper Large	210-0952	210-0953	210-0955	210-0956
Lower Large	211-0952	211-0953	211-0955	211-0956

### Ni-Ti®

Arch Form	Wire Size								
Broad	.014	.016	.018	.020	.0175 x .0175	.016 x .022	.017 x .025	.018 x .025	.019 x .025
Upper Small	205-0009	205-0001	205-0003	205-0013	210-0501	210-0502	210-0503	210-0504	210-0505
Lower Small	205-0011	205-0005	205-0007	205-0015	211-0501	211-0502	211-0503	211-0504	211-0505
Upper Large	205-0010	205-0002	205-0004	205-0014	210-0511	210-0512	210-0513	210-0514	210-0515
Lower Large	205-0012	205-0006	205-0008	205-0016	211-0511	211-0512	211-0513	211-0514	211-0515

### Ni-Ti<sup>®</sup>– Reverse Curve

Arcn Form	wire size						
Broad	.016	.018	.016 x .022	.016 x .025	.017 x .025	.019 x .025	
Upper	216-0116	216-0118	216-1622	216-1625	216-1725	216-1925	
Lower	217-0116	217-0118	217-1622	217-1625	217-1725	217-1925	



### Broad Arch Form (cont.)

### TMA®

Arch Form	Wire Size						
Broad	.016	.018	.0175 x .0175	.016 x .022	.017 x .025	.019 x .025	.02l x .025
Upper Small	210-0301	210-0302	210-0401	210-0402	210-0403	210-0404	210-0405
Lower Small	211-0301	211-0302	211-0401	211-0402	211-0403	211-0404	211-0405
Upper Large	210-0311	210-0312	210-0411	210-0412	210-0413	210-0414	210-0415
Lower Large	211-0311	211-0312	211-0411	211-0412	211-0413	211-0414	211-0415

### Colored TMA

Arch Form	Color	
.016 x .022	Purple	Honeydew
Upper Small	210-4402	210-5402
Lower Small	211-4402	211-5402
Upper Large	210-4412	210-5412
Lower Large	211-4412	
.017 x .025		
Upper Small	210-4403	210-5403
Lower Small	211-4403	211-5403
Upper Large	210-4413	210-5413
Lower Large	211-4413	211-5413
.019 x .025		
Upper Small	210-4404	210-5404
Lower Small	211-4404	211-5404
Upper Large	210-4414	210-5414
Lower Large	211-4414	211-5414
Packs of 5		

### Low-Friction TMA

Arch Form	Wire Size		
Broad	.016 x .022	.017 x .025	.019 x .025
Upper Small	210-1402	210-1403	210-1404
Lower Small	211-1402	211-1403	211-1404
Upper Large	210-1412	210-1413	210-1414
Lower Large	211-1412	211-1413	211-1414

### Broad Arch Form (cont.)

### Titanium Niobium FA

Arch Form	Wire Size		
Broad	.016 x .022	.017 x .025	.019 x .025
Upper Small	210-0442	210-0443	210-0445
Lower Small	211-0442	211-0443	211-0445
Upper Large	210-0452	210-0453	210-0455
Lower Large	211-0452	211-0453	211-0455



### Stainless Steel

#### Round

Arch Form	Wire Size			
Broad	.014	.016	.018	.020
Upper Small*	210-0024	210-0026	210-0028	210-0030
Lower Small*	211-0024	211-0026	211-0028	211-0030
Upper Large*	210-0124	210-0126	210-0128	210-0130
Lower Large*	211-0124	211-0126	211-0128	211-0130

\* Pack of 20

#### Rectangular

Arch Form	Wire Size				
Broad	.016 x .022	.017 x .025	.018 x .025	.019 x .025	.02l x .025
Upper Small	210-0701	210-0702	210-0703	210-0704	210-0705
Lower Small	211-0701	211-0702	211-0703	211-0704	211-0705
Upper Large	210-0711	210-0712	210-0713	210-0714	210-0715
Lower Large	211-0711	211-0712	211-0713	211-0714	211-0715

#### Square

Arch Form	Wire Size
Broad	.016 x .016
Upper Small	210-0706
Lower Small	211-0706
Upper Large	210-0716
Lower Large	211-0716

All wires are packaged in Kleen Paks<sup>™</sup> of 10 unless otherwise noted.

### Turbo Wire<sup>™</sup>

Arch Form	Wire Size	
Broad	.017 x .025	.02l x .025
Upper	210-0802	210-0805
Lower	211-0802	211-0805

### Vari-Simplex & Teardrop Looped Arch Forms

The Vari-Simplex arch form is slightly narrowed in the cuspid region for the ideal, anatomical Alexander arch form.

- Versatile: provides anatomical integrity required in individual arches without the large inventory of arch forms.
- Easy to use: stress-relieved, polished and midline markings.
- Developed by Dr. R. G. "Wick" Alexander. Designed to complement the Vari-Simplex appliance.

Treatment indications:

- Used throughout treatment with bracket systems with built-in ins and outs.
- Alexander TMA Teardrop Looped arches are designed to complement the Alexander technique.



**Alexander Teardrop Loop** 

### Stainless Steel Vari-Simplex<sup>™</sup>

Arch Form	wire Size		
Alexander	.016	.016 x .022	.017 x .025
Upper (Size 3)	207-0032	207-0037	207-0042
Lower Small (Size 1)	207-0030	207-0035	207-0040
Lower Large (Size 2)	207-003 I	207-0036	207-0041

### TMA Vari-Simplex<sup>™</sup>

Arch Form	Wire Size		
Alexander	.016 x .022	.017 x .025	.019 x .025
Upper	207-0045	207-0048	207-0063
Lower Small	207-0043	207-0046	207-0061
Lower Large	207-0044	207-0047	207-0062

### Alexander Archwire Template

Part Number

207-0060

All wires are packaged in Kleen Paks™of IO unless otherwise noted.



### TMA® Teardrop Looped

Arch Form	Upper*	Lower**	
Alexander	.017 x .025	.016 x .022	
34 mm	206-0070		
36 mm	206-0071	207-0070	
38 mm	206-0072	207-007 I	
40 mm	206-0073	207-0072	
42 mm	206-0074	207-0073	
44 mm	206-0075	207-0074	
46 mm		207-0075	
Kit	206-0076	207-0076	

Packs of 5

\*Loops distal to laterals.

\*\*Loops distal to cuspids.

Arch Di	strib	ution in	KIts
Upp	er	Lowe	r
Size	Qty.	Size	Qty.
34 mm	6	36 mm	6
36 mm	10	38 mm	10
38 mm	14	40 mm	14
40 mm	14	42 mm	14
42 mm	10	44 mm	10
44 mm	6	46 mm	6

# Tru-Arch® Arch Form

### The Functional Arch Form

The functional arch form must have the proper shape for optimal overcorrection. From a functional occlusion standpoint, the arch form should accommodate joint-dictated movement patterns. This means that both Tru-Arch forms are more broad and flat across the incisors. Additionally, the Straight-Wire® Appliance makes it possible to eliminate in/out archwire bends because the bracket thickness is engineered for the different tooth types. The customized bracket thickness also enables the bracket slots to accept the Tru-Arch shape without wire bends. Therefore, the Tru-Arch shape is the optimum shape for ideal occlusion with the Straight-Wire system.

### Archwire Template – Tru-Arch®

Part Number

704-1064



### Copper Ni-Ti<sup>®</sup> 27°C

227-1361\*

Arch Form	Wire Size							
Tru-Arch – No Dimp	ole .014	.016	.018	.014 x .025	.016 x .022	.016 x .025	.017 x .025	.019 x .025
Upper Small	205-6201	205-6202	205-6203	210-9101	210-9103	210-9102	210-9104	210-9105
Lower Small	205-6101	205-6102	205-6103	211-9101	211-9103	211-9102	211-9104	211-9105
Upper Large	205-6401	205-6402	205-6403	210-9201	210-9203	210-9202	210-9204	210-9205
Lower Large	205-6301	205-6302	205-6303	211-9201	211-9203	211-9202	211-9204	211-9205
Tru-Arch – Dimple	.014	.016	.018	.014 x .025	.016 x .022	.016 x .025	K	
Upper Small	205-6221	205-6222	205-6223	210-9121	210-9123			
Lower Small	205-6121	205-6122	205-6123	211-9121	211-9123	211-9122		
Upper Large	205-6421	205-6422	205-6423	210-9221	210-9223	210-9222		
Lower Large	205-6321	205-6322	205-6323	211-9221	211-9223	211-9222	-	
Tru-Arch – Stops	.014							
Upper Large	227-1360*							

35°С

Lower Large

#### Arch Form Wire Size Tru-Arch – No Dimple .018 .020 .016 x .022 .017 x .017 .017 x .025 .019 x .025 .016 .020 x .020 Upper Small 205-6212 205-6213 210-9113 210-9111 210-9114 227-1331\* 210-9112 Lower Small 205-6112 205-6113 211-9113 211-9111 211-9114 227-1333\* 211-9112 Upper Large 205-6412 205-6413 210-9213 210-9211 210-9214 227-1332\* 210-9212 Lower Large 205-6312 205-6313 211-9213 211-9211 211-9214 227-1334\* 211-9212 .018 .020 .020 x .020 **Tru-Arch** – **Dimple** .016 .016 x .022 .017 x .017 .017 x .025 .019 x .025 Upper Small 205-6232 205-6233 210-9133 210-9131 210-9134 210-9135 210-9132 Lower Small 205-6132 205-6133 211-9133 211-9131 211-9134 211-9135 211-9132 205-6432 205-6433 Upper Large 210-9233 210-9231 210-9234 210-9235 210-9232 Lower Large 205-6332 205-6333 211-9233 211-9231 211-9234 211-9235 211-9232 .020 Tru-Arch – Stops .016 .018 .016 x .022 .017 x .017 .017 x .025 .019 x .025 .020 x .020 Upper Small 227-1301\* 227-1311\* 227-1321\* Lower Small 227-1303\* 227-1313\* 227-1323\* Upper Large 227-1370\* 227-1372\* 227-1302\* 227-1312\* 227-1322\* Lower Large 227-1371\* 227-1373\* 227-1304\* 227-1314\* 227-1324\*

#### All wires are packaged in Patient Packs™of IO unless otherwise noted.

\*Available mid-to-late 2011

### Copper Ni-Ti® 40°C

Arch Form	Wire Size	
Tru-Arch	.019 x .025	.02l x .025
Upper Small	227-1401*	227-1411*
Lower Small	227-1403*	227-1413*
Upper Large	227-1402*	227-1412*
Lower Large	227-1404*	227-1414*

### D-Rect<sup>®</sup>

Arch Form	Wire Size	
Tru-Arch	.017 x .025	.02l x .025
Upper Small	227-1801*	227-1811*
Lower Small	227-1803*	227-1813*
Upper Large	227-1802*	227-1812*
Lower Large	227-1804*	227-1814*

### Ni-Ti<sup>®</sup> Pre-Torqued

Arch Form	Wire Size	
Tru-Arch	.0175 x .025	.02l x .025
34 mm Upper Small	227-1600*	227-1610*
34 mm Upper Large	227-1601*	227-1611*
36 mm Upper Small	227-1602*	227-1612*
36 mm Upper Large	227-1603*	227-1613*
38 mm Upper Small	227-1604*	227-1614*
38 mm Upper Large	227-1605*	227-1615*

### Align™

Align nickel-titanium archwires come with the option of a permanent vertical midline "dimple" that prevents archwire "walking" and eliminates the need to cinch the archwire behind the buccal tube.

### Align SE 200 (superelastic)

Align SE 200 nickel-titanium archwires provide gentle, constant forces during treatment. Since this wire is fully austenitic at room temperature, it is recommended for instances where the orthodontist desires slightly higher force levels.



### Align SE 200

Arch Form	Wire Size			
Tru-Arch – No Dim	ple .014	.016	.018	.020
Upper Medium	227-3152	227-3154	227-3156	227-3158
Lower Medium	227-3126	227-3132	227-3129	227-3 3
Tru-Arch – Dimple				
Upper Medium	227-3151	227-3153	227-3155	227-3157
Lower Medium	227-3125	227-3127	227-3128	227-3130

### Align SE 200 – Rectangular and Square

Arch Form	Wire Size								
Tru-Arch – No Dimple	.016 x .016	.016 x .022	.017 x .025	810. x 810.	.018 x .025	.019 x .025	.020 x .020	.02l x .025	.022 x .028
Upper Medium	227-3134	227-3136	227-3138		227-3142	227-3144	227-3649	227-3146	227-3648
Lower Medium	227-3108	227-3110	227-3112		227-3116	227-3118	227-3657	227-3122	227-3656
Tru-Arch – Dimple									
Upper Medium	227-3677	227-3135	227-3137	227-3679	227-3141	227-3143	227-3678	227-3145	
Lower Medium	227-3674	227-3109	227-3111	227-3676	227-3115	227-3117	227-3675	227-3121	

### Align<sup>™</sup>XF

The XF nickel-titanium wire is recommended during the initial and main treatment stages when teeth are slightly malaligned.

### Align XF

Arch Form	Wire Size			
Tru-Arch – No Din	nple .0l2	.014	.016	.018
Upper Small	227-3640	227-3379	227-3383	227-3387
Lower Small	227-3225	227-3217	227-3219	227-3221
Upper Medium	227-3286	227-3365	227-3369	227-3582
Lower Medium	227-3207	227-3209	227-3211	227-3213
Tru-Arch – Dimple	2			
Upper Small	227-3393	227-3377	227-3381	227-3385
Lower Small	227-3224	227-3216	227-3218	227-3220
Upper Medium	227-3284	227-3361	227-3367	227-3371
Lower Medium		227-3208	227-3210	227-3212



### Align XF – Rectangular and Square

Arch Form	Wire Size					
Tru-Arch – No Dimple	016 x .016	.016 x .022	.017 x .025	.018 x .025	.019 x .025	.021 x .025
Upper Small	227-3326	227-3330	227-3334	227-3342	227-3346	227-3354
Lower Small	227-3249	227-3253	227-3257		227-3269	227-3278
Upper Medium	227-3290	227-3294	227-3298	227-3306	227-3310	227-3318
Lower Medium	227-3227	227-3229	227-3231	227-3236	227-3238	227-3242
Tru-Arch – Dimple						
Upper Small	227-3324	227-3328	227-3332	227-3340	227-3344	227-3352
Lower Small		227-3251	227-3255	227-3263	227-3267	227-3275
Upper Medium	227-3288	227-3292	227-3296	227-3304	227-3308	227-3316
Lower Medium	227-3226	227-3228	227-3230	227-3235	227-3237	227-3241

### Stainless Steel

#### Round

Arch Form	Wire Size			
Tru-Arch	.014	.016	.018	.020
Upper Small	227-9042	227-9043	227-9044	227-9154
Lower Small	227-9024	227-9025	227-9026	227-9027
Upper Medium	227-9038	227-9039	227-9040	227-9041
Lower Medium	227-9020	227-9021	227-9022	227-9023



#### Rectangular Arch Form

#### Wire Size

Tru-Arch	.016 x .022	.017 x .025	.018 x .025	.019 x .025	.02l x .025	.022 x .028
Upper Small	227-9045	227-9047	227-9049	227-9050	227-9052	227-9054
Lower Small	227-9011	227-9013	227-9015	227-9016	227-9018	227-9019
Upper Medium	227-9029	227-903 I	227-9033	227-9034	227-9036	227-9037
Lower Medium	227-9001	227-9003	227-9005	227-9006	227-9008	227-9009

#### Square

Arch Form	Wire Size		
Tru-Arch	.016 x .016		
Upper Small	227-9055		
Lower Small	227-9010		
Upper Medium	227-9028		
Lower Medium	227-9000		

#### Keyhole Looped (2)

Arch Form	Wire Size	
Tru-Arch	.016 x .022	.019 x .025
22 mm	227-5000	227-5001
24 mm	227-5002	227-5003
26 mm	227-5004	227-5005
28 mm	227-5006	227-5007
30 mm	227-5008	227-5009
32 mm	227-5010	227-5011
34 mm	227-5012	227-5013
36 mm	227-5014	227-5015
38 mm	227-5016	227-5017
40 mm	227-5018	227-5019
42 mm	227-5020	227-5021
44 mm	227-5022	227-5023
Dulli a alva af 10		

#### Keyhole Looped (4)

Arch Form	Wire Size
Tru-Arch	.019 x .025
22 mm	227-5025
24 mm	227-5027
26 mm	227-5029
28 mm	227-503
30 mm	227-5033
32 mm	227-5035
34 mm	227-5037
36 mm	227-5039
38 mm	227-5041
40 mm	227-5043
42 mm	227-5045
44 mm	227-5047
Bulk packs of 10	

Bulk packs of 10

### Stainless Steel – Posted

	Tru-Arch	Tru-Arch Round T		u-Arch Rectangular		
Upper	.018	.020	.016 x .022	.018 x .025	.019 x .025	
32 mm		227-7029			227-7028	
34 mm	227-703 I	227-7034	227-7030	227-7032	227-7033	
36 mm	227-7036		227-7035	227-7037	227-7038	
38 mm	227-7041		227-7040		227-7043	
40 mm					227-7048	
42 mm					227-7053	
44 mm					227-7058	
Lower						
22 mm					227-7003	
24 mm					227-7008	
26 mm					227-7013	
28 mm	227-7016				227-7018	
30 mm		227-7024			227-7023	

Bulk packs of 10

All wires are packaged in Patient Packs™of IO unless otherwise noted.

# Standard Arch Form

The standard arch blank is available in a number of Ormco archwires. It minimizes adjustment and trimming and eliminates excess chairside procedures.


## Standard Arch Form (cont.)

#### TMA®

Arch Form	Wire Size							
Standard	.016	.018	.0175 x .0175	.016 x .022	.017 x .025	.019 x .025	.02l x .025	
Upper	202-0003	202-0004	202-0012	202-0011	202-0007	202-0008	202-0013	
Lower	202-0005	202-0006	202-0016	202-0014	202-0009	202-0010	202-0017	Ī

#### TMA – Low-Friction

Arch Form	Wire Size	
Standard	.017 x .025	.019 x .025
Upper	202-1007	202-1008
Lower	202-1009	202-1010

### Stainless Steel

#### Round

Arch Form	Wire Size			
Standard	.014	.016	.018	.020
Upper*	206-0014	206-0016	206-0018	206-0020
Lower*	207-0014	207-0016	207-0018	207-0020

Square		
Arch Form	Wire Size	
Standard	.016 x .016	.017 x .017
Upper	208-1616	208-1717
Lower	209-1616	209-1717

#### \* Pack of 20

#### Rectangular

Arch	Form	Wire	Size
ALC:			OILC

Standard	.016 x .022	.017 x .022	.017 x .025	.018 x .022	.018 x .025	.019 x .025
Upper	208-1622	208-1722	208-1725	208-1822	208-1825	208-1925
Lower	209-1622	209-1722	209-1725	209-1822	209-1825	209-1925

#### **D-Rect**

Arch Form	Wire Size				
Standard	.016 x .022	.017 x .025	.018 x .025	.019 x .025	.02l x .025
Upper	201-0001	201-0002	201-0003	201-0004	201-0005
Lower	201-0011	201-0012	201-0013	201-0014	201-0015

### Respond

Arch Form	Wire Size		
Standard	.015	.017	.019
Standard Arch	203-1115	203-1117	203-1119

All wires are packaged in Kleen Paks™of IO unless otherwise noted.

# Lingual Arch Form

### STb Straight Wire Copper Ni-Ti®

Arch Size	Wire Siz	e		
Lingual	.013	.016	.016 x .016	810. x 810.
Small	204-2101	204-2111	204-2121	204-2141
Medium	204-2102	204-2112	204-2122	204-2142
Large	204-2103	204-2113	204-2123	204-2143

#### TMA

### Stainless Steel

Arch Size	Wire Size	Arch Size	Wire Size
Lingual	.0175 x .0175	Lingual	810. x 810.
Small	204-2211	Small	204-2301
Medium	204-2212	Medium	204-2302
Large	204-2213	Large	204-2303



STb Straightwire

### Lingual Archwires

Wire Type	Wir	e Size									
Lingual	.013	.014	.0155	.016	.0175	.018	.016 x .016	.016 x .022	.0175 x .0175	.017 x .025	.018 x .025
Respond			203-0006		203-0007						
D-Rect								201-0023			
TMA				202-0025					202-0018	202-0020	
Stainless Steel		206-0000		206-0001		206-0002	206-0005	206-0006		206-0007	206-0008
Social 6	205-1950										

Ni-Ti®

Arch Size	Wire Size	
Lingual	.016	.018
Upper I	205-0025	205-0026
Upper 2	205-0023	205-0024
Upper 3	205-0021	205-0022
Lower I	205-003 I	205-0032
Lower 2	205-0029	205-0030
Lower 3	205-0027	205-0028

### Copper Ni-Ti<sup>®</sup>

Arch Size	Wire Size	
Lingual	.017 x .017	.017 x .025
Upper I	205-0076	205-0086
Upper 2	205-0075	205-0085
Upper 3	205-0074	205-0084
Lower I	205-0079	205-0089
Lower 2	205-0078	205-0088
Lower 3	205-0077	205-0087



All wires are packaged in Kleen Paks<sup>™</sup> of 10 unless otherwise noted.

### Lingual Arch Form(cont.)

Arch Form	Wire Size	
TMA	.032	.032 x .032
Upper	233-0002	233-0001
Lower	233-0012	233-0010
Stainless Steel		
Upper		232-0001
Lower		232-0010



# Straight Length Wire

#### TMA

Wire Size

Straight Length	.016	.018	.0175 x .0175	.016 x .022	.017 x .025	.019 x .025	
l 4" Straight	266-0001	266-0002	266-0012	266-0010	266-0011	266-0013	

### Large Diameter TMA

ize

Straight Length	.027	.032	.036
14" Straight	266-0006	266-0004	266-0005

### Respond

Straight Length	.015	.017	.019	.021
I 4" Straight	264-1115	264-1117	264-1119	264-1121
Dead Soft 7" Straight		264-1170	264-1190	

### $Azurloy^{\rm \tiny TM}$

	Wire Size	
Straight Length	.016 x .016	.016 x .022
14" Straight	266-0050	266-0051

All wires are packaged in Kleen Paks<sup>™</sup> of IO unless otherwise noted.

#### Copper Ni-Ti<sup>®</sup> <sup>35°C</sup>

	Wire Size
Straight Length	.013
8.5" Straight	266-1360

### Triple Flex<sup>™</sup>

Wire Size							
Straight Length	.015	.017					
I 4" Straight	264-0150	264-0175					

## Straight Length Wire (cont.)

#### Stainless Steel Round

	Wire	Size									
Straight Length	.012	.014	.016	.018	.020	.028	.030	.032	.036	.040	.045
14" Straight	266-1312	266-1314	266-1316	266-1318	266-1320	266-1328	266-1330	266-1332	266-1336	266-1340	266-1345
Package Qty	50	50	40	40	40	30	30	20	20	20	20
Rectangular											
	Wire	Size									
Straight Length	.016 x	.022 .0	7 x .022	.017 x .025	.018 x .02	2.018 x .	025 .019	x .025	.02l x .025		
14" Straight	254-	622 2	54-1722	254-1725	254-1822	254-18	325 254	1-1925	254-2125		
Square											
	Wire	Size									
Straight Length	.016 x	.016									
14" Straight	252-	1616									

# **Reverse Curve Wire**

#### TMA – Reverse Curve

Reverse Curve TMA is ideal for bite opening, arch leveling, space closure and early three-dimensional manipulation and torque control.

Arch Form	Wire Size		
Reverse Curve	.016 x .022	.017 x .025	.019 x .025
Upper	215-0003	215-0004	215-0005
Lower	216-0003	216-0004	216-0005

All wires are packaged in Kleen Paks™of IO unless otherwise noted.

#### TMA – Reverse Curve with "T" Loops

Reverse Curve TMA with "T" Loops<sup>1</sup> offers a superior titanium alloy with proven treatment mechanics. "T" Loops allow effective anterior retraction, intrusion of the anterior segment and torquing. Colors noted indicate millimeter identification.



Arch Size	Wire Size		
Reverse Curve	.016 x .022	.017 x .025	.019 x .025
30 mm (Blue)	215-0021	215-0031	215-0041
32 mm (White)	215-0022	215-0032	215-0042
34 mm (Black)	215-0023	215-0033	215-0043
36 mm (Red)	215-0024	215-0034	215-0044
38 mm (Green)	215-0025	215-0035	215-0045
40 mm (Yellow)	215-0026	215-0036	215-0046

Packs of 5

<sup>1</sup>U.S. Patent No. 5,131,843

## Section Six

# Adhesives, Curing Lights

2 Enlight & Enlight LV page Blūgloo & System 1+ 3 page page 4 Grēngloo 5 Gel Etch, Ortho Solo & Liquid Etch page 6 OptiBand Ultra & OptiBand page Protech/Protech Gold, Primer, 7 page Mixing Slab Covers & Instructions 8 Demi Ortho Light page 9 **Optilux 501** page 10 Demetron Accessories & Parts page

### SECTION 6 PAGE 2 ADHESIVES & CURING LIGHTS

In an effort to provide the orthodontist with the most advanced bonding products, Ormco has teamed up with its partner, Kerr, the leading innovator in dental adhesives. The combined efforts of the Kerr and Ormco scientists in the state-of-the-art Kerr Corporation have resulted in cuttingedge technology for increased bonding efficiency.

## Enlight<sup>®</sup> Bonding System

#### Enlight

- Highly filled light-cure adhesive
- Bis-GMA resin for superb handling characteristics, easy cleaning
- Highly active initiater system supports reduced cure times
- Unidose<sup>™</sup> and syringe delivery options

#### Syringe Kit

Contains: Adhesive (four 4 g syringes – 16 g total) Ortho Solo (5 ml) Mixing Pad Etching Solution (10 ml) Sealant Applicator Brushes (75) Spatulas (75) Instructions

**Unidose Kit** 

Contains: Adhesive (60 Unidose tips – 12 g total) Ortho Solo (5 ml) Mixing Pad Etching Solution (10 ml) Sealant Applicator Brushes (75) Spatulas (75) Unidose Gun Instructions

#### Sample Kit Contains: Adhesive (one 4 g syringe) Ortho Solo (5 ml) Syringe Refill (4 g syringe)

Unidose Refill (20 tips – 4 g total) Ortho Solo Refill (5 ml) Etching Solution Refill (10 ml) Sealant Applicator Brushes (75) Spatulas Refill (75) Unidose Gun Enlight Technique Card 740-0179

740-0198

740-0199

#### 740-0195 740-0178

740-0271 740-0038 740-0041 740-0075 740-0197 070-0432

#### Enlight LV (Low Viscosity)

- Flowable low-viscosity paste designed for lingual retainers and indirect bonding
- Highly active initiater system supports reduced cure times
- · Unidose delivery for easy placement

Unidose Kit

#### 740-0299

Contains:	
Adhesive (60 Unidose tips – 12 g total)	
Ortho Solo (5 ml)	
Mixing Pad	
Etching Solution (10 ml)	
Applicator Brushes (75)	
Spatulas (75)	
Unidose Gun	
Instructions	
Jnidose Refill (20 tips – 4 g total)	740-0278
Ortho Solo Refill (5 ml)	740-0271
tching Solution Refill (IO ml)	740-0038
Sealant Applicator Brushes (75)	740-0041
Spatulas Refill (75)	740-0075
Jnidose Gun	740-0197
Enlight LV Technique Card	070-0431





#### See What You've Been Missing!

**Blugloo** provides color contrast when you need it and is clear when you don't. Bracket placement and cleanup have never been easier.

**Color on demand** – The color contrast of Blugloo during bonding facilitates fast, accurate bracket placement and makes it easy to remove unwanted flash. As Blugloo warms to body temperature, the color virtually disappears, remaining clear throughout treatment. When debonding, simply introduce a short blast of cool air or water to lower the bonding surface temperature, and Blugloo turns blue again for easy and thorough cleanup.

Made for aesthetics, but great on metal – Blugloo's advanced formulation and color stability have been optimized for aesthetic brackets such as Damon Clear<sup>™</sup>, Damon<sup>™</sup>3, Nexus Clear<sup>™</sup> and Inspire ICE<sup>™</sup>, plus it's excellent for metal brackets. Blugloo ensures reliable bond strengths in even the most challenging cases.

0 0 0	
Syringe Kit	740-0274
Contains:	
Adhesive (two 4 g syringes – 8 g total)	740-0272
Ortho Solo Primer (5 ml)	740-0271
Etching Solution (10 ml)	740-0038
Sealant Applicator Brushes (38)	740-0041*
Spatulas (75)	740-0075
Unidose™ Kit	740-0275
Contains:	
Adhesive (four Unidose IO-packs – 8 g total)	740-0273**
Ortho Solo Primer (5 ml)	740-0271
Etching Solution (10 ml)	740-0038
Sealant Applicator Brushes (38)	740-0041*
Spatulas (75)	740-0075
Unidose Gun	740-0197
Syringe Paste Refill (one 4 g syringe)	740-0272
Unidose Paste Refill (20 tips – 4 g total)	740-0273
*Refill sold separately as a pack of 75	

\*\* Refill sold separately as two packs of IO

### System I+

#### A Superior No-mix System with Bond Strength Equal to Traditional Two-paste Systems

The urethane-modified dimethacrylate resin produces a refined molecular structure that results in a tougher, less-brittle polymer, providing added bond strength, high-tack paste and cleaner debonding procedures.

- No mixing, improves chairtime efficiency
- High-tack paste minimizes bracket drift
- Wires can be placed in as little as five minutes after bonding
- Adheres firmly to acrylic veneers and composite restorations as well as enamel
- Two convenient dispensing packages (jar or preloaded syringe) to suit your personal preference

#### Introductory Kit 740-0107 (Individual components may be ordered separately) Contains: Adhesive (two 2.5 g Syringes) 740-0108

Adhesive (two 2.5 g Syringes)	740-0108
Activator (10 cc)	740-0101
Etching Solution (10 ml)	740-0038
Activator Brushes (75)	740-0041
Mixing Pad	740-0031
Spatulas (75)	740-0075
Instructions	069-0000
Syringe Kit	740-0105
Contains:	
Adhesive (four 2.5 g Syringes)	740-0108
Activator (10 cc)	740-0101
Etching Solution (10 ml)	740-0038
Activator Brushes (75)	740-0041
Mixing Trays (40)	740-0076
Spatulas (75)	740-0075
Instructions	069-0000
Jar Kit	740-0106
Contains:	
Adhesive (10 g)	740-0104
Activator (10 cc)	740-0101
Etching Solution (10 ml)	740-0038
Activator Brushes (75)	740-0041
Mixing Trays (40)	740-0076
Spatulas (75)	740-0075
Instructions	069-0000





### **ADHESIVES & CURING LIGHTS**

## Grēngloo

Grengloo is the two-way color change adhesive for metal brackets that provides the strength, flexibility and intelligent features you demand.

### Strong

- Quick-cure polymerization provides greater sheer bond strength at initial force loading
- Chemical affinity for metal brackets ensure more reliable bond strength

### Flexible

- 185% more working time than other light cure adhesives allow for better placement
- Patented formula delivers up to 118% more impact resistance for reduced emergency visits

#### Smart

- On-demand color change for fast and accurate cleanup at bonding and debonding
- Light cures in as little as 5 seconds for reduced chair time.

Syringe Kit	740-0320	
Contains:		
Adhesive (two 4 g Syringes)	740-0321 740-0271 740-0038 740-0041*	
Bottle Ortho Solo (5 ml)		
Etching Solution (10 ml)		
Sealant Applicator Brushes (38)		
Spatulas (75)	740-0075	
Unidose™ Kit	740-0322	
Contains:		
Adhesive (four Unidose 10-packs – 8 g total)	740-0323**	
Bottle Ortho Solo (5 ml)	740-0271*	
Etching Solution (10 ml)	740-0038	
Sealant Applicator Brushes (38)	740-0041*	
Spatulas (75)	740-0075	
Unidose Gun	740-0324	

\*Refill sold separately as a pack of 75 \*\* Refill sold separately as two packs of IO





†Testing comparison conducted with Optilux 501 curing light at 60 seconds.
‡ Transbond XT and Light Bond are trademarks of 3M Corp. and Reliance Corp., respectively.

### Gel Etch

Conveniently packaged in two 5 cc syringes, Gel Etch provides an easily applied alternative to traditional etching procedures. Disposable syringe tips are included to provide a contamination-controlled environment between patients.

Gel Etch Kit

740-0150

Contains: Syringes (two 5 cc) Disposable Syringe Tips (25)

Syringe (one 5 cc) Disposable Syringe Tips (25) 740-0133 740-0134



### Ortho Solo<sup>®</sup>

#### Sealant and Bond Enhancer

Ortho Solo<sup>™</sup> is a fluoride-releasing universal sealant and bond enhancer. With light-cure and paste-paste systems, Ortho Solo replaces the sealant. With no-mix chemicalcure systems, Ortho Solo should be used in addition to the activator for best results.

Ortho Solo incorporates a bond-enhancing property that improves adhesion to the tooth at the adhesive interface, hence reducing bond failures. The glass filler, unique to Ortho Solo, acts as a stress and shock absorber, preventing cracks that can lead to bond failures. This formulation also releases fluoride where you need it the most at the enamelresin interface.

With Ortho Solo, no air-dry or light-cure step is needed, thereby saving valuable chair time. It also includes a compound that displaces moisture, making the technique more forgiving when a dry field is inadvertently compromised.

Ortho Solo Kit	740-0270
Contains:	
Ortho Solo (four 5 ml bottles)	
Applicator Brushes (75) Disposable Wells (I pkg)	740-0041
Ortho Solo Technique Card	070-0440
Ortho Solo Refill	740-0271
Contains:	
Ortho Solo (one 5 ml bottle)	



## Ortho Solo Stick

#### Your Favorite Bond Enhancer in a Convenient Unidose<sup>™</sup> Delivery System

Each Ortho Solo Stick contains enough sealant/bond enhancer for one arch, making everyday bondings faster and easier than ever before. Simply push the Ortho Solo Stick into the sealant well to access the bond-enhancing solution, pull the stick out and immediately apply the liquid to the tooth. No air-dry or light-cure steps needed.

Consistent and accurate dosage minimizes product waste. Unidose delivery reduces the risk of cross contamination and offers a cleaner presentation to your patients. A tightly sealed container ensures that there is no harmful exposure to light and no risk of product evaporation.

Box of IO Sticks (I.2 ml total)

740-0269



### **Etching Solution**

Contains 37% phosphoric acid. Bottle of 10 ml

740-0038

## **OptiBand** Ultra



#### Single-Paste, Light-Cure Band Cement

With more features than any other band cement on the market, OptiBand Ultra is the only choice for reliable and convenient banding.

- Quick-Setting, Single-Paste, Light-Cure Formula means no more mixing and no more mess
- **Disposable Tips** allow application directly into the band for no waste and reduced risk of cross contamination
- Unique Chemistry includes adhesion boosters for added reliability
- Fluoride-Releasing Formulation
- Optional Blue Color makes cleanup of excess adhesive easy at both banding and debanding appointments

 5 Syringes – Tooth Colored (9 g total, 10 tips)
 740-0291

 10 Syringes – Tooth Colored (18 g total, 20 tips)
 740-0292

 5 Syringes – Blue Colored (9 g total, 10 tips)
 740-0293

 10 Syringes – Blue Colored (18 g total, 20 tips)
 740-0294

 10 Syringes – Blue Colored (18 g total, 20 tips)
 740-0294

 10 Refill (50 tips)
 740-0295

## **OptiBand**<sup>®</sup>

#### Band Cement

OptiBand is a resin-based glass ionomer band cement formulated to save doctor and assistant time, both at banding and throughout the course of treatment.

Fewer Loose Bands...Because OptiBand is a resin-based cement with increased adhesion to metal and enamel surfaces, washout is significantly reduced and band failures are minimized.

"No-Mess" Convenience...Since the two-paste, dual-syringe system eliminates messy powder and liquid mixing, consistent mixes are achieved every time. OptiBand's dualcure feature also gives you the choice of light- or selfcuring.

#### Dual Syringe Kit Contains: Dual Syringes (four syringes – 20 g total) Mixing Pads (75) Spatulas (5) Instructions

740-0194

Dual Syringe (5 g) Mixing Pads (75) Instructions

740-0193 740-0124 070-0462



### Protech/Protech Gold

#### **Glass Ionomer Cement**

Protech<sup>™</sup> glass ionomer band cement is the first product of its type specifically formulated for orthodontic banding. Unlike conventional cements, Protech bonds to enamel and stainless steel to provide exceptional band retention. Via an ionic exchange, Protech provides an ideal mechanism for continuous fluoride release to adjacent and surrounding tooth surfaces.



In addition to improved retention and fluoride protection, the incidence of microleakage and the likelihood of cement washout is virtually eliminated due to the material's extremely low solubility and high compressive strength.

Introductory Kit (white) Introductory Gold Kit Both kits contain: Cement Powder (30 g) Cement Liquid (15 ml) Measuring Scoop Instruction Sheet	740-0155 740-0255
Standard Kit (white)	740-0156
Contains: White Cement Powder (240 g) Cement Liquid* (120 ml) Dispensing Bottle (empty) Measuring Scoops (2) Instruction Sheet	740-1151 740-0153
Standard Gold Kit	740-0256
Contains: Gold Cement Powder (240 g) Cement Liquid* (120 ml) Dispensing Bottle (empty) Measuring Scoops (2) Instruction Sheet	740-0251 740-0153

\* Cement liquid is the same part for Protech and Protech Gold.

### Primer



#### Porcelain Primer

Porcelain Primer permits bonding versatility with patients having bridgework or crowns. May be used with all metal, ceramic or plastic brackets. Complete instructions are included.

Bottle of 12 cc 740-0012

## Mixing Slab Covers

Mixing cement directly on the surface of the aluminum slab is not recommended. Ormcoat and Teflon\* slab covers are available. The easy-to-clean Ormcoat cover may be reused for as many as 20 mixes. The Teflon cover is more permanent. Covers are easily replaced when necessary.

Teflon Cover (I pair) Ormcoat Cover Refills (50 sheets) 770-0010 770-0020

\* Teflon is a registered trademark of DuPont.

### Instructions

All Ormco chemical products come with complete instructions for use. Instructions may be reordered as follows:

	Technique Card	Instruction Booklet
Blūgioo	070-5111	070-5471
Enlight	070-0432	070-5298
Enlight LV	070-0431	070-5297
OptiBand	n/a	070-0462
OptiBand Ultra	n/a	n/a
Ortho Solo	070-0440	070-0441
Plastic Bracket Primer	n/a	070-0471
Porcelain Primer	n/a	070-0073
System I+	n/a	069-0000
Bonding Booklet	n/a	070-5287

## Demi Ortho<sup>-</sup> - L.E.D. Light Curing System

Engineered with Demetron expertise, the leading manufacturer of curing lights, the Demi Ortho is designed to specifically suit the needs of the Orthodontist. This sleek L.E.D. curing light employs a unique wavelength that optimally cures orthodontic materials, providing enhanced performance and consistent cures. The Demi Ortho allows you to focus on what's truly important—your practice.

- Lightweight and Ergonomic Sleek, compact and portable, just 5.5 oz. measuring 9.25" x 1.2" with multiple holding options to reduce hand and arm stress.
- Interchangeable Lithium Ion Battery One full charged battery yields 3 to 4 days working time.
- 8-minute Sleep Mode Maximizes battery life and optimizes workflow.
- Shorter Curing Times Periodic Level Shifting (PLS) keeps cure times at a minimum without excess heat.
- Multiple Curing Time Selections. 5-, 10- and 20- second preset time settings reflect short curing times.
- Light Guide Options Accommodates alternate Demetron light guides.



#### Faster Cures Without Excess Heat\*\* Pulsing Power of PLS



TIME IN SECONDS

The Demi Ortho employs the power of Periodic Level Shifting, or PLS technology, shifting output intensity from 1,100 mW/cm<sup>2</sup> to a peak of 1,330 mW/cm<sup>2</sup> multiple times throughout the curing cycle with a wavelength of 440 to 445 nm. PLS drives cool, continuous high output for a true 5-second cure without generating excess heat.

ODENI

, MANIMANING.

## **Demetron Light-Curing Units**

### **Optilux 501 Curing Light**

Fast-curing from Demetron, the leading manufacturer of curing technology. The Optilux 501 curing light has these features:

- Boost Mode, a 10-second high-output mode (1,000+ mW/cm<sup>2</sup>), cures metal brackets in 10 seconds and clear brackets in 5 seconds
- Bleach Mode, emits 30 seconds of high output (1,000+ mW/cm<sup>2</sup>), beeps in 10-second intervals
- Ramp Mode, cures exponentially from 100 mW/cm<sup>2</sup> to 1,000 mW/cm<sup>2</sup> in 10 seconds and remaining 10 seconds at 1,000 mW/cm<sup>2</sup>
- 10- to 40-second timer selection
- "C" timer for continuous curing
- Redesigned 8 mm turbo tip for maximum curing efficiency and standard 11 mm light guide included
- Design incorporates carrying handle
- Voltage regulator
- Eight-key timer pad with LED display
- Built-in digital radiometer with 4-digit readout
- Lamp life usage is displayed in one-hour increments
- Programmable choice of audible tones: Turn-on/Turn-off – Volume Control – 10 or 20 seconds

707-0025

707-0027

- Mountings table or wall
- · On-off switch with green indicator light
- Count-up timer display
- Protective light shield
- Five Star Reality Rating

IIO Volt 220 Volt

Ormco • 800.854.1741 • 714.516.7400 • www.ormco.com

### Demetron Accessories and Replacement Parts



#### Radiometer

The Demetron curing radiometer gives an instant readout of whether your visible light-curing unit is operating normally or whether corrective action should be taken. **707-0012** 

#### OptiBulb (80 watt)

OptiBulb is the only bulb on the market designed to emit constant output over the life span of the bulb. **707-0022** 



Protective Light Shield

Handpiece Without Light Guide



#### Light Guides



Light Guide, Curved Turbo+ (8 mm) 707-0026



Light Guide, Curved Turbo (II mm) 707-0042

Protective Glasses



## Section Seven

# Elastics & Power Products

page	2	Molded "O"s Short Sticks
page	3	Power Chain, Tieback Modules, Power Thread,
6.2	1.1	Power Tube & Separators
page	4	Zoo Pack Elastics
page	6	Zoo Pack Dispenser

### Molded "O"s Short Sticks

Short Sticks accommodate single-patient use to avoid cross contamination between patients.

- Size .120" available in 24 vibrant colors
- · Coordinates with Colored Power Chain
- Flat cross section for improved tie-wing fit
- Package of 1,000 (100 trees/10 per tree)

Purple	640-1240
Orange	640-1241
Blue	640-1242
Pink	640-1243
Black	640-1244
Red	640-1245
Neon Green	640-1246
Yellow	640-1247
White	640-1248
Tooth	640-1249
Teal	640-1250
Rose	640-1251
Violet	640-1252
Emerald Green	640-1255
Maroon	640-1256
Gold	640-1257
Silver	640-1258
Jade Green	640-1259
Ruby Red	640-1260
Cobalt Blue	640-1261
Navy	640-1262
Smoke	640-1263
Clear	640-1264
Gray	640-1265
Regular Sampler Pack	640-1270
Metallica Sampler Pack	640-1271

Long regarded as the industry standard of orthodontic elastomerics, Ormco's latex-free elastomerics incorporate a life span dating signature that ensures the reliability of use. Manufacturing our own elastomeric products allows for greater quality control, longer shelf life, and better clinical results for you.



#### Short Sticks Sectional Storage System and Shade Sheet

Store your Ormco Short Sticks conveniently with the Short Sticks Sectional Storage System. It contains 24 sections, enough to store each color of Ormco Short Sticks, and comes complete with a double-sided, perforated Shade Sheet with which to label each section.

Sectional Storage System with Shade Sheet Additional Shade Sheet 640-1275 070-0529

## Molded "O"s Long Sticks

Package of 1,000

Powder Blue,	.120"
Clear, .IIO"	
Gray, .090"	
Gray, .IIO"	

640-0155 640-0074 640-0076 640-0077

## **Power Chain**

### Original Power Chain

Power Chain I and II are easy-to-use continuous chains of modules for ligation, consolidation and anterior retraction.

- Roll of 15 ft
- Open and wide spacing

Power Chain I (wide space) Power Chain II (open space) Clear 639-0012 639-0013 Gray

639-0010

639-0011

### **Colored Power Chain**

Colored Power Chain features a unique urethane formulation that provides constant application of light forces.

• 19 vibrant colors

- Coordinate with Short Sticks colors
- Open and closed spacing
- Roll of 13.1 ft

Color	Open	Closed
Pink	639-0030	639-0040
Purple	639-0031	639-004I
Black	639-0032	639-0042
Green	639-0033	639-0043
Red	639-0034	639-0044
Blue	639-0035	639-0045
Orange	639-0036	639-0046
Yellow	639-0037	639-0047
White	639-0038	639-0048
Teal	639-0050	639-0060
Rose	639-0051	639-0061
Violet	639-0052	639-0062
Emerald Green	639-0053	639-0063
Silver	639-0054	639-0064
Maroon	639-0055	639-0065
Gold	639-0056	639-0066
Jade Green	639-0057	639-0067
Ruby Red	639-0058	639-0068
Cobalt Blue	639-0059	639-0069

#### **Generation II Power Chain**

This advanced elastomeric provides a more uniform continuous force over a longer period of time.

- Closed, open, and wide spacing
- Clinical leader in chain elastics
- Roll of 13.1 ft

	Clear	Gray
Generation II (closed space)	639-0002	639-000I
Generation II (open space)	639-0004	639-0003
Generation II (wide space)	639-0019	639-0018

## Tieback Modules

#### Damon Tieback Modules

Designed exclusively for the Damon<sup>®</sup> System, the Damon Tieback Modules are manufactured with the same fatigueresistant material as Ormco's popular Generation II Chain.

- Optimized force-memory and elongation properties provide consistent uniform forces throughout treatment
- Tear-resistant
- Available in two sizes
- Available in two colors (gray and clear) to complement all Damon bracket systems
- Package of 40

 Length
 Clear
 Gray

 6.1 mm
 637-0012
 637-0011

 8.6 mm
 637-0022
 637-0021

## Power Thread & Tube

#### Power Thread<sup>\*\*</sup>

- Consistent, reliable performance
- Ideal for rotation, corrections and cuspid retractions

Size	Length	Clear	Gray
.025"	25 ft	640-1026	640-102
.030"	25 ft	640-1031	640-103
.025"	50 ft	640-2026	640-202
.030"	50 ft	640-203I	640-203



#### Power Tube<sup>™</sup>

Hollow channel allows for secure knotting.

Size	Length	Clear	Gray	6
.025"	25 ft	640-4026	640-4025	1
.030"	25 ft	640-403I	640-4030	
.025"	50 ft	640-6026	640-6025	1
.030"	50 ft	640-603I	640-6030	P

## Separators



- Radiopaque
- Provide gentle, continuous forces
- Effective in both anterior and posterior sections
- Highly visible blue color

Pack of I,000

000 640-0080

## Zoo Pack Elastics

- High-quality surgical latex
- Consistent force pull
- Force ratings based on elastic being extended three times listed diameter
- Available in 10 sizes of assorted Color Packs (pink, orange, green and purple)
- Zoo Packs contain 50 bags of 100

Shao in	ded sizes Ormco C	are avail olor Pacl	able ks
Chipmunk	636-0113	Bear	636-0122
Rabbit	636-0114	Impala	636-0125
Fox	636-0115	Ram	636-0126
Penguin	636-0116	Moose	636-0127
Monkey	636-0117	Buffalo	636-0128
Color F	acks contai	n 40 packs	of 100

#### **Intraoral Elastics**

#### **Extraoral Elastics**

Size	Light	Medium	Med./Heavy	Heavy	Ex./Heavy	Light	Heavy
Strength	2 oz/60 g	3 oz/85 g	3.5 oz/100 g	4.5 oz/I30 g	6 oz/170 g	8 oz/230 g	l4 oz/400 g
I/8" 3.18 mm	Uummingbird 630-0010		Chipmunk 630-0030				
3/16" 4.76 mm	Quail 630-0011	Otter 630-0020	Rabbit 630-0031	Kangaroo 630-0040	O Impala 630-0050	O Cougar 635-0058	
l/4" 6.35 mm	Owi 630-0012	Seal 630-0021	Fox 630-0032	Bear 630-0041	Ram 630-0051	Leopard 635-0059	
5/I6" 7.94 mm	Parrot 630-0013	Dolphin 630-0022	Penguin 630-0033	<b>Zebra</b> 630-0042	Moose 630-0052	Panther 635-0060	Walrus 635-0065
3/8" 9.35 mm	Road Runner 630-0014	Turtle 630-0023	Monkey 630-0034	Camel 630-0043	Buffalo 630-0053	Tiger 635-006l	Elephant 635-0066
l/2" l2.7 mm	Peacock 630-0015		Donkey 630-0035	0	A DOG A	Lion 635-0062	Whale 635-0067
5/8" 15.9 mm	Eagle 630-0016		Llama 630-0036	ZOO I	PACK TICS		
3/4" 19.1 mm	Ostrich 630-0017		Giraffe 630-0037				

Animal Zoo Packs	Master Pouches of 50 Zoo Packs	Color Packs of 40 Zoo Packs
Light – 2 oz		
Hummingbird	630-0010	
Quail	630-0011	
Owl	630-0012	
Parrot	630-0013	
Road Runner	630-0014	
Peacock	630-0015	
Eagle	630-0016	
Ostrich	630-0017	
Medium – 3 oz		
Otter	630-0020	
Seal	630-0021	
Dolphin	630-0022	
Turtle	630-0023	
Medium Heavy –	3.5 oz	
Chipmunk	630-0030	636-0113
Rabbit	630-003 I	636-0114
Fox	630-0032	636-0115
Penguin	630-0033	636-0116
Monkey	630-0034	636-0117
Donkey	630-0035	
Llama	630-0036	
Giraffe	630-0037	







### Zoo Pack Elastics (cont.)

Animal Zoo Packs	Pouches of 15 Zoo Packs	Master Pouches of 50 Zoo Packs	Color Packs of 40 Zoo Packs
Heavy – 4.5 oz			
Kangaroo		630-0040	
Bear		630-004 I	636-0122
Zebra		630-0042	
Camel		630-0043	
Extra Heavy We	ight – 6 oz		
Impala		630-0050	636-0125
Ram		630-005 I	636-0126
Moose		630-0052	636-0127
Buffalo		630-0053	636-0128
Light – 8 oz Hea	adgear		
Cougar	635-0058	634-0000	
Leopard	635-0059	634-0001	
Panther	635-0060	634-0002	
Tiger	635-0061	634-0003	
Lion	635-0062	634-0004	
Heavy – I4 oz H	eadgear		
Walrus	635-0065	634-0012	
Elephant	635-0066		
Whale	635-0067	634-0014	

630-0000

#### Zoo Pack Dispenser

- Convenient, clear plexi rack
- Holds 6 Zoo Pack boxes
- Easily mounts on wall or sits on counter top

Dispenser (Zoo Packs not included)



## Section Eight

POID-TAG

# Intraoral/Noncompliance

- page2VectorTAS Temporary Anchorage System
- page 3 Cantilever Bite Jumper
- page4Standard Bite Jumper
- page 5 Bite Fixer & Bite Turbos
- **page 6** Wick Flat Bow Retainer & Wick Lip Bumper
- page 7 Orthos Lip Bumper & Q.C.M. Retainer
- page 8 Quick Nance, Preformed TMA Pendulum Springs & Coil Springs
- page 10 Pletcher Springs, Tie Hooks, Power Pins & Ligature Wires
- page II Arch Hooks, Stops, Spacers & Lingual Retainers
- page 12 Precision Lingual Hinge Cap & Lingual Attachments
- page 14 Sheaths

# **VectorTAS**<sup>™</sup>

### Temporary Anchorage System

VectorTAS is a coordinated system of miniscrews, attachments and instruments designed to facilitate a wide range of orthodontic movements using simple mechanics.

- Reduce anchorage demand for more control
- Treat surgery cases treated without surgery
- Eliminate the need for headgear
- Reduce need for patient compliance
- Reduce treatment time
- Increase patient comfort

### Simple System

VectorTAS is a complete system that combines user-friendly protocols, products, packaging and mechanics to simplify treatment and improve patient care.

- Simple color-coded atlas guides proper miniscrew selection
- Complete kit for one-stop shopping
- Needle-free anesthesia for greater comfort and improved patient acceptance







#### VectorTAS Kit

The VectorTAS kit, including the patented VectorTAS Atlas, includes everything you need to treat approximately 10 cases\*. Each kit includes:

- Miniscrew assortment
- Driver and tips
- Spring assortment
- Initiators
- Crimpable postsProtocol guide

• Technique guide

• Typodont

- Tissue punches
- \*Needle-free anesthesia is not included.

VectorTAS Kit (10 - patient)	601-0010
Screws	
VectorTAS 6 mm Mini-Screw (6/pk)	601-0020
VectorTAS 8 mm Mini-Screw (6/pk)	601-0021
VectorTAS IO mm Mini-Screw (6/pk)	601-0022
VectorTAS I2 mm Mini-Screw (6/pk)	601-0023
Instruments	
SyriJet Mark II Needle-less Injector	601-0005
SyriJet Refill Water Vials (50/pk)	601-0015
VectorTAS Modular Driver w/tips	601-0007
VectorTAS Driver Tip 40 mm (2/pk)	601-0011
VectorTAS Driver Tip 22 mm (2/pk)	601-0012
VectorTAS Modular Driver Tip (2/pk)	601-0013
VectorTAS Tissue Punch (6/pk)	601-0003
VectorTAS Initiator (2/pk)	601-0002
Attachments	

VectorTAS Single Delta IO mm 50 g Spring w/swivel (6/pk) 601-0030 VectorTAS Single Delta IO mm I50 g Spring w/swivel (6/pk) 601-0031 VectorTAS Single Delta 10 mm 250 g Spring w/swivel (6/pk) 601-0032 VectorTAS Single Delta 5 mm 50 g Spring w/swivel (6/pk) 601-0033 VectorTAS Single Delta 5 mm I50 g Spring w/swivel (6/pk) 601-0034 VectorTAS Single Delta 5 mm 250 g Spring w/swivel (6/pk) 601-0035 VectorTAS Double Delta 5 mm ISO g Spring (6/pk) 601-0036 VectorTAS Double Delta IO mm I50 g Spring (6/pk) 601-0037 VectorTAS Double Delta 5 mm 250 g Spring (6/pk) 601-0039 VectorTAS Double Delta IO mm 250 g Spring (6/pk) 601-0038 VectorTAS Crimpable Post (6/pk) 601-0040 VectorTAS Curved Bondable Delta Button (6/pk) 601-0050 VectorTAS Flat Bondable Delta Button (6/pk) 601-0051

Infrazygomatic Crest

12mm

## CBJ

#### Cantilever Bite Jumper

The 20-patient CBJ<sup>™</sup> Kit provides the essential components for the single-appointment Cantilever Bite Jumper. A complete size range of laser-marked first molar crowns (seven per quadrant) is provided – 80 crowns distributed according to popular usage. Upper crowns are supplied complete

with gold-brazed axles, while all lower crowns come with gold-brazed cantilever arms that are specifically designed for maximum strength and optimum patient comfort. Each cantilever arm has an axle with an .022 tube to the occlusal for bonded cases. All necessary components for 20 cases are also supplied. This includes rods, sleeves, Hex-Head screws and a Hex key. Hex-Head screws are used for all appliances to increase accessibility and improve performance over conventional slot-head screws. The CBJ saves the expense of additional chair time, doctor time and staff time. It also costs significantly less than using a commercial lab.

Hinge Caps are an option for the upper and lower arches (when TPAs or other auxiliaries are planned) to eliminate all soldering and lab work, with the exception of pouring models. If Hinge Caps are used, stainless steel Snug Fit .032 x .032 wire (available in straight lengths or preformed lingual arches) is recommended for achieving an ideal fit with lingual or transpalatal arches. Peerless® M/P .022 buccal tubes are also available nickel-brazed to upper molar crowns for use in bonded cases.

Cantilever	Bite Jun	nper Kit	
Contains	:		
(Upper r	ight/left,	lower right/	left)
Crowns	Qty	Crowns	Qty
Size 2	2	Size 6	2
Size 3	4	Size 7	2
Size 4	4	Size 8	2
Size 5	4		
Offset Ro	ods (40)		
Sleeve Lo	eft (20)		
Sleeve R	ight (20)		
Hex-Hea	d Screws	- 5.5 mm (8	0)
Hex Keys	; (2)		





Instruments designed for use with the CBJ and SBJ Bite Jumping Appliances

ETM Crown Contouring Plier	800-0160
AEZ Crown Slitting Plier	803-0430
AEZ Chastant Crown Removing Plier	803-0610



Crowns	Upper Left	Upper Right	Lower Left	Lower Right
Size 2	600-0002	600-0012	600-0022	600-0032
Size 3	600-0003	600-0013	600-0023	600-0033
Size 4	600-0004	600-0014	600-0024	600-0034
Size 5	600-0005	600-0015	600-0025	600-0035
Size 6	600-0006	600-0016	600-0026	600-0036
Size 7	600-0007	600-0017	600-0027	600-0037
Size 8	600-0008	600-0018	600-0028	600-0038

#### **CBJ Crown Fit Kit**

600-0100

600-0000

020

## SB

### Standard Bite Jumper

We've redesigned this noncompliance device with patient comfort in mind. Enlarged pivot openings enhance lateral movement, maximizing ease of mandibular motion. A positive sleeve stop prevents the "lockup" that can occur with traditional designs as the sleeve slides along plunger. For enhanced clinical efficiency, we've developed a Hex-Head screw mechanism; intraoral manipulations are made easier and safer since the Hex Key allows greater appliance accessibility. The finer thread and longer neck of the screw head minimize loose appliances. Offset rods and larger Hex-Head screws enhance patient comfort.

Complete	600-1020			
Contai	ns:			
Left an	d Right Plung	er-Sleeve		
Com	bination with	Offset Rods (I	each)	
5.5 mm	Screw/Casing	Assembly (4)		
Hex Ke	ey a			
Standard	Bite lumper K	it – 20 Patient	Kit	600-0300
Contai	ns:			
Crowns	s			
	<b>Upper Left</b>	<b>Upper Right</b>	Lower Left	Lower Right
	Qty	Qty	Qty	Qty
Size I	-		2	2
Size 2	2	2	2	2
Size 3	4	4	4	4
Size 4	4	4	5	5
Size 5	4	4	5	5
Size 6	2	2	2	2
Size 7	2	2		
Size 8	2	2		
Offset	Rods (40)			
Sleeve	Left (20)			
Sleeve	Right (20)			



Crowns	Upper Left	Upper Right	Lower Left	Lower Right
Size I			600-0321	600-0331
Size 2	600-0002	600-0012	600-0322	600-0332
Size 3	600-0003	600-0013	600-0323	600-0333
Size 4	600-0004	600-0014	600-0324	600-0334
Size 5	600-0005	600-0015	600-0325	600-0335
Size 6	600-0006	600-0016	600-0326	600-0336
Size 7	600-0007	600-0017		
Size 8	600-0008	600-0018		

Com	non	en	tc
Com	JOII	eп	ιc

Hex Keys (2)

Hex-Head Screws - 5.5 mm (80)

Components	
Spacers I mm (IO/pk)	600-1001
Spacers 2 mm (10/pk)	600-1002
Spacers 3 mm (10/pk)	600-1003
Spacers 4 mm (10/pk)	600-1004
Hex-Head Screws (IO/pk)	600-1006
Hex-Head Screws/Casing Assembly (5/pk)	600-1007
Hex Key (2/pk)	600-1011
Straight Rod (IO/pk)	600-1012
Left Sleeve (IO/pk)	600-1013
Right Sleeve (IO/pk)	600-1014
Offset Rod (IO/pk)	600-1015
Hex-Head Screw/Curved Base Casing (10/pk)	600-1016
Hex-Head Screw - 5.5 mm (10/pk)	600-1017

Instruments designed for use with the CBJ and SBJ Bite Jumping Appliances

ETM Crown Contouring Plier	800-0160
AEZ Crown Slitting Plier	803-0430
AEZ Chastant Crown Removing Plier	803-0610

"It is clear that the future of orthodontic mechanotherapy will include more and more forms of noncompliance therapy." – James J. Hilgers, DDS, MS



Noncompliance treatment approaches are gaining increasing acceptance as the preferred way to achieve clinical goals without relying on patient performance. The list of noncompliance options from Ormco include the Bite Fixer, Bite Turbos and Pendulum appliance. And the CBJ and SBJ bitejumping appliances provide a new approach to traditional Herbst\* therapy.

### **Bite Fixer**



- Improved material and reinforcement ensure more-efficient performance, with greatly reduced breakage problems.
- The crimpable lower attachment is much simpler to place.
- Polyurethane tubing prevents the spring from becoming a food trap.

<b>Bite Fixer IO-Patie</b>	nt Kit 600-2000
Contains:	
Size 3 Left (3)	Size 3 Right (3)
Size 4 Left (4)	Size 4 Right (4)
Size 5 Left (3)	Size 5 Right (3)
Ball Stops (20)	
Metal Pins (20)	
Rulers (10)	
Patient Informat	tion Cards (10)

Components	
Size 3 Left	600-2003
Size 3 Right	600-2013
Size 4 Left	600-2004
Size 4 Right	600-2014
Size 5 Left	600-2005
Size 5 Right	600-2015
Ball Stops (10/pk)	600-2010
Metal Pins (IO/pk)	600-20II
Rulers (IO/pk)	600-2009
Patient Information Cards (10)	070-0444

### **Bite Turbos**



- Bite Turbos can be placed on the lingual of upper or lower anteriors. One to four may be placed.
- Occlusal table is horizontal and places no distal force on the mandible/maxilla.
- Easy removal with the ETM Lingual Debonding Plier (Part No. 800-0431).
- Minimum order of 10.

Bite Turbos 350-0000

"Bite Turbos do more than allow morerapid lower placement. They can increase lower facial height. They also deprogram the musculature to allow the mandible to achieve a more-relaxed rest (freeway) position, so detailing of the occlusion orthodontically will be less iatrogenic... We have found the simplicity and ease of application of the Bite Turbos allow us to offer more-rapid delivery of quality care and shorter treatment times."

- Joe H. Mayes, DDS, MSD



\*Herbst is a registered trademark of Dentaurum, Inc.

### Wick Flat Bow Retainer

- Preformed to minimize the need for adjustment.
- Rounded labial surface maximizes patient comfort and improves aesthetics.
- Flattened lingual surface allows for maximum tooth contact and control.

Size I	45 mm (IO/pk)	204-0201
Size 2	46 mm (10/pk)	204-0202
Sizo 2	47  mm (10/nk)	204-0203

"Compared to earlier designs, this popular 'wraparound' retainer allows excellent rotational control of the upper anteriors while the flat side of the wire touches the teeth. The pre-bent lateral offsets control the in-out positions. I believe it's important to use a stainless steel wire because the stiffness of the wire eliminates anterior gingival slippage, while the preformed arch form makes construction of the retainer very simple."
R. G. "Wick" Alexander, DDS, MSD



Lip bumpers are becoming an integral auxiliary in a number of orthodontic treatment philosophies. Many doctors have determined them to be quite an effective tool for the treatment of patients who have mandibular arch-length discrepancies. When Dr. R. G. "Wick" Alexander asked Ormco to design a better lip bumper, we developed an appliance that offers you the following advantages:

- Hard plastic (polypropylene) bumper design provides the necessary surface area to transfer adequate pressure from the lip to the molars, while preventing the lips and cheeks from applying pressure to the teeth. In addition, it is anatomically contoured to reduce bulk on the incisal and lingual portions of the anterior region, creating a more efficient and comfortable appliance.
- Gingiva-colored plastic results in an appliance that is less noticeable to ensure patient acceptance and compliance.
- Bayonet bends act as built-in stops while offering the clinician an easy means of adjustment.
- More-flexible wire results in less patient discomfort when used in buccal uprighting of molars.
- Anatomical design is compatible with the popular Vari-Simplex Discipline arch form.
- Graduated sizes and idealized arch form ensure easier and faster adjustment for the individual patient.

Wick Lip Bumper	
Size I – 74 mm	293-0151
Size 2 – 85 mm	293-0152
Size 3 – 94 mm	293-0153

 Wick Lip Bumper
 with Hooks

 Size I - 74 mm
 293-0161

 Size 2 - 85 mm
 293-0162

 Size 3 - 94 mm
 293-0163



## **Orthos Lip Bumper**

With the tremendous response to the Orthos<sup>®\*</sup> system, doctors began asking for a lip bumper designed with the Orthos arch form in mind. Working with Dr. Mike Scott, we have designed a lip bumper that will provide benefits to everyone – Orthos and non-Orthos users.

- Developed with the Orthos arch form as a template.
- Specially designed sizing guide that can be used to measure the distance from the midline to the mesial edge of the lip bumper tube.
- Accentuated bayonet bend to provide a positive stop when inserted into the lip bumper tube.
- Hook is mesial to the adjustment loop to make adjustment easier.
- Translucent pink color.

#### Individual Orthos Lip Bumpers

Size I	293-0171
Size 2	293-0172
Size 3	293-0173
Size 4	293-0174
Size 5	293-0175

#### Lip Bumper

Sizing Guides (IO/pk)

760-0044



\*Products identified as "Orthos" are distributed in Europe as "Ortho-CIS."

## Q.C.M. Retainer

When your patients' braces come off, the only thing they want to see is their beautiful smile. The Q.C.M. Retainer allows the clinician to offer a traditional bow retainer with unparalleled aesthetics. It is easy to form and deliver, requires no special tools, and will allow you to fulfill your patients' aesthetic needs through retention. The Q.C.M. Retainer comes in three sizes in looped and non-looped configurations.

#### Description (Packs of 5)

42 mm	204-1042
42 mm w/Loops	204-1142
48 mm	204-1048
48 mm w/Loops	204-1148
54 mm	204-1054
54 mm w/Loops	204-1154



Q.C.M. Retainer



**Traditional Retainer** 

### Quick Nance

The Quick Nance is an ideal complement to all molar distalizing techniques, as it cuts down chairtime and the need for an independent laboratory procedure.

#### Package of IO

	Length	Width	Part Number	
Size I	22 mm	26 mm	225-0001	1
Size 2	30 mm	33 mm	225-0002	ľ
Size 3	38 mm	40 mm	225-0003	Ø.,



### Ni-Ti<sup>®</sup> Springs – Open-Coil (Compression)

#### **Cuspid Retraction**

The open-coil span is placed between the upper centrals and cuspids. A crimpable stop can be used for cuspid retraction.

#### **Distalizing Molars/Anterior Unraveling**

The compression spring is placed mesial to the first molar and a crimpable stop is set to activate the spring.

#### **Tube of three 7" lengths**

Force	Coil I.D.	Part Number
Light	.010 x .030	221-5510
Medium	.012 x .030	221-5512
Heavy	.014 x .036	221-5514

#### Ni-Ti<sup>®</sup> Springs – Closed-Coil (Extension)

#### **Cuspid Retraction**

Eyelets are hooked on a free-sliding crimp hook placed mesial to the cuspid or on a Hemi-Hook of the cuspid bracket. If desired, a crimpable stop can be placed on the archwire to control the amount of retraction.

#### Anterior Retraction

Crimpable sliding hook used as tie-back is placed distal to the lateral incisor. Eyelets are hooked onto the crimp hook and first molar buccal tube hook to activate retraction.



Box of IC	springs wit	h eyelets
Length	Force	Coil I.D.
9 mm	Light	.010 x .0
l2 mm	Medium	.010 x .0
9 mm	Heavy	.010 x .0

**Part Number** .010 x .030 222-5610 .010 x .030 222-5612 .010 x .030 222-5620

### TMA<sup>®</sup> Coil Springs



#### Tube of three 7 I/2" lengths

Force	Open Coil I.D.	Part Number
Light	.009 x .060	221-0901
Medium	.010 x .060	221-1001
Heavy	.0115 x .060	221-1150
Force	Stop Wound Coil I.D.	
Light	.009 x .060	222-0901
Medium	.010 x .060	222-1001



### **Preformed TMA Pendulum Springs**

Since Dr. Hilgers created the Pendulum Appliance many years ago, clinicians have enjoyed great success in correcting Class II malocclusions. The latest generation of the Hilgers Pendulum Appliance can be fabricated easily with Preformed TMA® Pendulum Springs.™ The .032 TMA is formed into a V-type spring that is angled so the spring arm curves up to the mesial side of the first molar sheath. The helical loop is preformed so the anchorage arm turns up parallel to the midline of the palate.

Intro Kit (5 lefts/5 rights) Lab Pack (IO lefts) Lab Pack (IO rights)

225-0034 225-0035 225-0036



## **Coil Springs**

#### **Chrome Alloy Coil Springs**

High-spring properties are ideally suited for orthodontic use. An .030" coil I.D., in two-foot length, packaged in a convenient plastic dispenser.

Closed Coil Spring	222 0020
.008 X .030	222-0830
.009 x .030	222-0930
.010 x .030	222-1030
	010 • 324:10-30
1.13	
13	
1 121	
1.12	
	TAN AND SO

men mener mannam con spines	Align	Nickel	-Titaniu	m Coil	Springs
-----------------------------	-------	--------	----------	--------	---------

These springs require less wire than stainless steel to deliver the necessary forces while minimizing tooth trauma and patient discomfort. The springs are designed for efficient tooth movement, better sliding mechanics and better oral hygiene.



#### Open Coil Spring .008 x .030 221-0830 .009 x .030 221-0930 .010 x .030 221-1030



#### Open Coil Springs (Compression)

Wire	Coil	Part
Diameter	Diameter	Number
.010	.030	704-6047
.012	.030	704-6049
.010	.030	704-6052
.011	.030	704-6054
.012	.030	704-6055
.010	.030	704-6024
	Wire Diameter .010 .012 .010 .011 .012 .010	Wire         Coil           Diameter         Diameter           .010         .030           .012         .030           .010         .030           .011         .030           .012         .030           .010         .030           .011         .030           .012         .030           .010         .030



#### Closed Coil Springs (Extension)

	Wire	Coil	Part
Description	Diameter	Diameter	Number
6 mm Light Force (10/pk)	.010	.030	704-6037
9 mm Light Force (10/pk)	.010	.030	704-6036
12 mm Light Force (10/pk)	.010	.030	704-6040
15 mm Light Force (10/pk)	.010	.030	704-6042
6 mm Medium Force (10/pk)	.011	.030	704-6065
9 mm Medium Force (10/pk)	.011	.030	704-6066
12 mm Medium Force (10/pk)	.011	.030	704-6062
15 mm Medium Force (10/pk)	.011	.030	704-6063
9 mm Heavy Force (IO/pk)	.012	.030	704-6039
12 mm Heavy Force (10/pk)	.012	.030	704-6041
15 mm Heavy Force (10/pk)	.012	.030	704-6043

## **Pletcher Springs**



Used during retraction stage of treatment for closing space by providing a positive, constant tension. Close-wound spring features coil loop at distal end, 90° to helix. Mesial end has an extended straight length from helix.

```
Package of 50
.009 x .030 70
```

.009 x .030 704-6021 .011 x .030 704-6022

## Tie Hooks

#### Kobayashi Ready-to-Use Auxiliary Tie Hooks

Quickly tied in place in the same manner as a standard ligature wire. Made from easily adaptable .012, .014 or .016 ligature wire. Wires are spot-welded together to form a hook; a straight hook can be formed for up or down usage with looped end for patient comfort.



### **Power Pins**

Power Pins are ideal for engaging any type of elastomerics. They are designed to be used with either the right or left. Power pins are used in place of Kobayashi ties or bracket hooks.

and the second se

Package of IOO 704-603I



#### Preformed Ligature Wires

Ormco's Preformed Ligature Wires are made of diamonddrawn chrome-alloy stainless steel and cut to ample length to fit all standard ligature-tying pliers. Consistent, preformed shape ties with minimum effort.

Packaged in hygienic plastic tube dispensers that may be held by assistant or patient during ligation. Supplied in packs of three plastic tube dispensers – total of 1,000 wires.

Package of 1,000 (3 tubes) Dimension .009 270-0009 .010 270-0010 .011 270-0011 .012 270-0012



#### Teflon<sup>®</sup> Coated Ligature Wires

Ormco's Teflon-coated ligature wires provide the strength and security of steel ligatures, yet maintain the aesthetic appeal needed for use with clear brackets. The Teflon coating is guaranteed not to chip, scratch or discolor. The core wire is .008" stainless steel. The outer diameter, following coating, is .012".

Package of 100 272-0012

#### Mini-Twisted Kobayashi Ligatures

Ormco's Mini-Twisted Ligatures and Kobayashi hooks allow for fast archwire ligation. The unique design fits easily over any bracket.

Teflon-coated Kobayashi hooks provide the strength and security of steel ligatures, yet maintain the aesthetic appeal needed for use with clear brackets.

Ligature Ties (package of 1,000) .010 270-0001 Kobayashi Hooks (package of 100) .012 271-0000 .014 271-0001 Tooth-Colored Kobayashi Hooks (package of 100) .016 271-0006

\* Teflon is a registered trademark of DuPont.

### Arch Hooks, Stops and Spacers

#### Crimpable Ball Hook

When extra retraction is needed on anteriors or the brackets are without attachments and you need a ball hook option, a Crimpable Ball Hook works great and is easy to use. Use it in place of Kobayashi Hooks or pre-posted archwires. The Crimpable Ball Hook can be placed mesial to the cuspid anywhere on the arch without having to remove or replace the archwire. Just position the hook, then crimp in both the occlusogingival and mesiodistal directions. The hook stays snug on any size archwire, and its smooth ball and noncorrosive stainless steel finish make it more comfortable for patients.

704-9000

Package of 50

**Crimpable Ball Hook** 



#### Crimpable Edgewise Arch Hooks and Stops

Crimpable stops or spacers are made of heavy-wall, soft-temper tubing. May be used for sliding spacers or crimped around the archwire for non-sliding hook or stop. Minimum order of 10.

Hook – 2 mm	
.018 x .025	663-0218
.022 x .028	663-0222
Stop or Spacer – 2 mm	
.018 x .025	624-1825
.022 x .028	624-2228

#### Package of 10 Criss-Cross .022 x .028 Rectangular Tube



#### Crimpable Arch Hook and Stops or Spacers (Round)

Crimpable .015. Minimum order of 10.

Hook	-	2	mm
022			

661-0022

199-0895

Stop or Spacer - 2 mm .019 ID x .030 OD .030 ID x .041 OD 623-0262 623-0263



#### Weldable Arch Stop or Spacer (Round)



This weldable stop or spacer is made of thin-wall, medium-hard temper tubing. May be used as a sliding spacer or welded to the archwire for a stop.

Package of 50

Stop or Spacer - 1 mm .052 622-0151

## Lingual Retainers

### Bondable Lingual Retainer

Fabricated in an arch form that requires only minimal adaptation, this retainer may be placed prior to appliance removal while the case is bonded or after bond removal. A measuring template is provided to assist in selecting the proper size.



Seven sizes of  $3 \times 3$  retainers provide the necessary range for rapid fitting of the retainer to the patient. The retainer may be fitted to a model or in some cases directly to the patient. Only slight adjustment is normally required for optimum fit.

Size O	204-0010	Size 4	204-0014
Size I	204-0011	Size 5	204-0015
Size 2	204-0012	Size 6	204-0016
Size 3	204-0013		

#### Adjustable Lingual Retainer

Can be fabricated to fit any size arch. The adjustable pad with sliding solder ring allows effortless placement and soldering to any length required.

Adjustable Lingual Retainer 3 x 3 204-0000



#### Dead Soft Respond® Wire

Ideal for fixed lower lingual retainers.

7" Straight Lengths (package of IO) Size .0175 264-1170 Size .0195 264-1190

### Precision<sup>®</sup> Lingual Hinge Cap



One key to innovation is always looking at accepted standards with a fresh perspective. An excellent example of this is the Precision Lingual Hinge Cap from Ormco. We took a closer look at the standard lingual sheath, added a hinge cap and dramatically enhanced lingual archwire mechanics while providing a much more patient-friendly lingual sheath.

The Precision Lingual Hinge Cap minimizes the difficulty of lingual wire insertion and removal. A secure lock over the wire is achieved without the double-back bend required in many applications with traditional sheaths. Since the contour of the hinge cap is reduced and the overall dimensions of the sheath are smaller, patient comfort is enhanced.

The Precision Lingual Hinge Cap is designed to accommodate up to .032 x .032 (square) and .032 (round) wires. Built-in torque, in both uppers and lowers,

makes it an equally appropriate choice for both passive and active lingual arch applications.

As lingual archwire mechanics gain increasing acceptance, the advantages of the Precision Lingual Hinge

Cap over traditional lingual sheaths will be "open-and-shut."

Upper First Molar (Left/Right) +12° torque Lower First Molar (Left/Right) -6° torque 134-0005 134-0015

### Lingual Hinge Cap Opening Tool

The Lingual Hinge Cap Opening Tool is to be used with the hinge cap molar attachments. It is designed to exert the adequate leveraged force to open the Precision Lingual Hinge Cap.

802-1001

## Lingual Attachments

### **Easy-Threading Eyelets**

Comfortable for patients. Packaged in convenient strip form. Minimum order of 100 loose or 10 direct bond pads.

612-0001

300-0091

300-0090

Flat – Loose or Prewelded Flat – Direct Bond Pad Curved – Direct Bond Pad



### **Contoured Lingual Seating Lugs**

Cuspid and bicuspid lugs are contoured for easy welding. Minimum order of 100.

Anterior Cuspid & Bicuspid 615-0101 615-0201



### **Comfortable Molar Seating Lugs**

Designed for molars. Two lugs per band. Comfortable for patient. Minimum order of 100.

615-0301

Molar Seating Lugs



### Lingual Buttons

Integral one-piece construction with no sharp corners and curved for patient comfort. Greater weld area and available in choice of contour for minimum distortion. Minimum order of 10.

Flat – Loose or Prewelded Curved – Loose or Prewelded Molar – Loose or Prewelded Flat – Direct Bond Pad Curved – Direct Bond Pad Plastic Button – Loose



#### Versatile Precision Cleats

Precision quality assures uniform size, shape and wing length. Versatile design provides for use of either one or both wings. May be flattened against tooth for patient comfort when not in use.

Molar cleat is larger and thicker for more weld security. Minimum order of 100 loose or 10 direct bond pads.

6.9 mm Molar – Loose or Prewelded 5 mm Bicuspid – Loose or Prewelded 5 mm Bicuspid – Direct Bond Pads 300-0092

### Lingual Attachments (cont.)

### Elastilugs

Elastilugs combine a lingual hook with a seating lug. For use on anteriors, cuspids, bicuspids and molars. The long oval lingual hook prevents elastics from slipping off and the base is contoured for easy welding. Minimum order of 100 loose or 10 direct bond pads.

Curved - Loose or Prewelded Flat - Loose or Prewelded **Curved – Direct Bond Pads** 

614-0001 614-0022 300-0094



#### Auxiliary Hook (for elastics)

Provided with handle for easy welding and rounded corners for patient comfort. Minimum order of 10. 646-000I

#### Flat Wire Ball Hook

A buccal or lingual elastic hook. Minimum order of 10. 242-0100



### Lingual Ball Hook

Unique bayonet offset with precision ball on end for comfort and protection. Available prewelded to the band of your choice. Specify mesial or distal placement.

Package of IO 613-0015



#### **Ball Retainer Clasps**

Tempered Chrome Alloy Wire with an integral solid ball at one end, double the diameter of the wire. Ball Retainer Clasps resolve many of the contouring and retention difficulties in retainers, especially those involving mixed dentition.

Package of IO

.028 Wire with .7 mm Ball .032 Wire with .8 mm Ball 242-0028 242-0032

#### **Lingual Buttons**

The Direct Bond Lingual Button has a specially designed foil mesh bonding pad for maximum adhesive interlock for use with elastics and elastic rings or elastic thread. The small, thin pad size enables bonding to partially erupted teeth. The smooth finish ensures patient comfort. The button has a low profile and may be bonded to either lingual or buccal tooth surfaces.



### **Lingual Cleats**

Small (for cuspids and bicuspids) Direct Bond Foil Mesh (25/pk)

704-4014



### Sheaths

### Mesial Offset Sheaths

Ormco's Mesial Offset Sheath was specifically designed for maximum patient comfort and ease of use. The 6° mesial offset assists in insertion and removal of transpalatal bars.

Pack of IO .036 Right, 6° Mesial Offset UR/LL 678-3672 .036 Left, 6° Mesial Offset UL/LR 677-3672



### Horizontal Lingual Sheaths

With window and locking indent. Locking indent stabilizes archwire position and holds the wire firmly in place. Minimum order of 10.

For Doubled Wire .030 Round .036 Round

672-3060 672-3672

**Available with Mesiodistal Hook** For Doubled Wire .036 Round UL/LR



.036 Round UR/LL

### **Burstone Precision Lingual Bracket**

Minimum order of 10.

For .032 x .032 Arches Upper +12° torque Lower -6° torque

134-0001 134-0010



Minimum order of 10.

With Short 2.2 mm Ball Ho	ok
.036 Sheath UL/LR, Distog	ingival 676-3671
.036 Sheath UR/LL, Distog	ingival 675-3671
.036 Sheath UL/LR, Mesiog	gingival 676-3673
.036 Sheath UR/LL, Mesio	gingival 675-3673

With 3.2 mm Ball Hook 676-3672 .036 Round UL/LR, Distogingival 675-3672 .036 Round UR/LL, Distogingival



### Sheath Comfort Insert

Minimizes tissue irritation when lingual arch is not in use.

Pack of 40 Radiopaque



Sheath with Window

One-piece cast lingual sheaths have a short base mesiodistally for better adaptation to either first or second molar bands. Low profile, rounded contours for greater patient comfort; integral, cast and maleable hook. Fits both lefts or rights.

704-4012

704-4001

Pack of 25 .036 with Hooks



### Vertical Lingual Sheaths

Use with all lingual attachments that have vertical insertion tabs. Designed for greater patient comfort, this one-piece cast sheath adapts easily to either first or second molar bands. Fits both lefts and rights.

Pack	of	25		
.036				



672-3000

## Section Nine

# Extraoral Appliances

page	2	AD & Asian Profile	
		Protraction Facemasks	
page	3	Brite-Gear	
page	4	SR, SRX & A+ Facebow	

S

### **AD** Protraction Facemask

Developed by Dr. Fernando Morales the AD Protraction Facemask is designed with patient compliance in mind. The AD (Adjustable Dynamic) Protraction Facemask provides dynamic movement in the forehead rest while allowing the chin cup to slide vertically along the main frame. This means maximum patient comfort while sleeping, talking, or anytime the jaw is moving. And since the movement of the softly padded chin cup and forehead rest involves much less sliding contact with tissue, wearing the AD Facemask won't be an irritating experience.

Increased patient compliance means the AD Protraction Facemask will be a more efficient treatment option for you in moving the skeletal Class III maxilla forward while stabilizing or retracting the mandible. It is also effective in closing space and correcting negative overjet. Ormco's Whale or Walrus elastics are recommended with the AD Facemask.

- · Easily adjusted
- · Comfortably worn
- Clinically effective

"Facemask therapy has proven to be a very integral and gratifying part of my practice. There are several features of the AD Protraction Facemask that contribute to this. The smaller size of the forehead rest and chin cup proves that bigger is not necessarily better. And the freedom of movement allowed by the innovative design enables the orthodontist to achieve better dynamic movement for the patient, enhancing both comfort and compliance." - Michael W. Scott, DDS, MSD

#### **AD** Protraction Facemask

Blue Facemask	716-0001 716-0002
Lavender Facemask	
Chin and Forehead	
<b>Replacement Pads (3)</b>	716-0003
Hex Key	716-0004

#### Asian Profile **Protraction Facemask**

Blue Facemask	
Lavender Facemask	
Replacement Pads (3)	
Hex Key	

716-0011 716-0012 716-0005 716-0004


### SECTION 9 PAGE 3

## Brite-Gear®



## **Cervical Neck Pads**

Package of	10		
Denim	715-1001	Blue	715-1004
Pink	715-1002	Green	715-1005
Yellow	715-1003	Black	715-1006
Sample Pa	ck :al neck pads i	n blue.	
black, o	lenim, green,	and pink)	715-1009
Complete	Cervical Headg	ear Kit	715-1000
Contains	5:		
Denim P	ad		
Medium	Force Release	Modules (2	)



#### **Break-Away Release Modules**

Package of 10 Medium (white) Heavy (gray) C-Type – Medium (white) C-Type – Heavy (gray)

715-1020 715-1021 715-2020 715-2021

## High-Pull Straps

Package of IO	
Black	715-1011
Pink	715-1012
Yellow	715-1013
Complete High-Pull Headgear Kit	715-1010
Contains:	
Black Strap	
Medium Force Release Modules (2	)

#### Colored Facebow (.045 dimension only)

Inner Arch	Style	Pink	Yellow	Orange	Black	White
Short Outer	<sup>.</sup> Bow with Horiz	ontal Hooks				
Size 3	Omega Loops	200-0323	200-0423	200-0523	200-0623	200-0723
Size 4	Omega Loops	200-0324	200-0424	200-0524	200-0624	200-0724
Large	Plain	200-0328	200-0428	200-0528	200-0628	200-0728
Mini-Short	Outer Bow with	Horizontal Ho	oks			
Size 3	Omega Loops	200-0343	200-0443	200-0543	200-0643	200-0743
Size 4	Omega Loops	200-0344	200-0444	200-0544	200-0644	200-0744

## **EXTRAORAL APPLIANCES**



## SRX Facebow

- Expanded outer bow
- Stress-relieved stainless steel
- Tubing reinforced outer bow
- Redesigned outer bow hook

Inner Arch	Style	.045	.051
Long Outer E	Bow with Horizontal H	ooks	
Size I	Omega Loops	200-0201	
Size 2	Omega Loops	200-0202	
Size 3	Omega Loops	200-0203	
Size 4	Omega Loops	200-0204	
Size 5	Omega Loops	200-0205	
Large	Plain	200-0208	200-0218
Short Outer	Bow with Horizontal H	looks	
Size I	Omega Loops	200-0221	
Size 2	Omega Loops	200-0222	200-0232
Size 3	Omega Loops	200-0223	200-0233
Size 4	Omega Loops	200-0224	200-0234
Size 5	Omega Loops	200-0225	
Small	Plain	200-0227	
Large	Plain	200-0228	200-0238
Mini-Short O	uter Bow with Horizo	ntal Hooks	
Size I	Omega Loops	200-0241	
Size 2	Omega Loops	200-0242	200-0252
Size 3	Omega Loops	200-0243	200-0253
Size 4	Omega Loops	200-0244	200-0254
Size 5	Omega Loops	200-0245	200-0255
Super-Short	Outer Bow with Horiz	ontal Hooks	
Size 2	Omega Loops	200-0262	
Size 3	Omega Loops	200-0263	
Size 4	Omega Loops	200-0264	
Size 5	Omega Loops	200-0265	
Small	Plain	200-0267	
Large	Plain	200-0268	

Inner Arch	Style	.045
Short Outer Bow wi	ith Horizontal Hoc	oks
Size 3	Omega Loops	200-1223
Size 4	Omega Loops	200-1224
Large	Plain	200-1228
Mini-Short Outer Bo	ow with Horizonta	I Hooks
Size 3	Omega Loops	200-1243
Size 4	Omega Loops	200-1244



Inner Bow	Outer Bow	.045
Standard Style		
Long	Regular	617-1002
Medium	Regular	617-1004
Medium-Short	Regular	617-1003
Short	Regular	617-1001
Medium	Short	617-1013
Medium-Short	Short	617-1012
Short	Short	617-1015
Medium	Super-Short	617-1008
Medium-Short	Super-Short	617-1010
Short	Super-Short	617-1009
Straight-Universal	Regular	617-1006
Straight-Universal	Short	617-1000
Straight-Universal	Super-Short	617-1011

NOTE: Gauge for all facebows 872-2001



# **Supplies**

page	2	Basis Alginate, Bright Trays
page	3	SportsGuard, Toothbrushes, SmoothEase & Patient Wax
page	4	Electrodes, Articulator & Supplies, Utility Wax, Silver Solder &
		Orthodontic Soldering Flux
page	5	Retainer Cases, Bonding Seminar Kit
page	6	Cephalometric Protractor/Tracing Template & Patient Hand Mirror Optiview Lip and Cheek Retractor

#### SECTION IO PAGE 2

### **SUPPLIES**



## Basis<sup>™</sup>

#### Dust-Free Alginate Impression Material

Basis is an easy-to-mix, fast-set, dust-free alginate impression material that produces impressions with superb detail. Its dust-free formula minimizes the potential harmful effects of airborne particles. Patients young and old will enjoy the fresh cinnamon flavor.

776-2101
776-2107 776-2106
776-2102
776-2103
776-2104

## **Bright Trays**

### **Disposable Plastic Impression Trays**

- Designed specifically for single-patient use.
- Provide new unused trays for the perfect impression every time.
- Four sizes available for accurate fit and perfect results.
- Excellent patient comfort.
- Great alginate retention due to superior tray perforations and Rim Lock design.
- No adhesives required.
- Color coordinated by size for easy use.
- Conveniently packaged in bags of 20.

#### Upper

Size IO – Purple	714-0041
Size I2 – Pink	714-0042
Size I4 – Blue	714-0043
Size 16 – Green	714-0044
Lower	
Size IO – Purple	714-0051
Size I2 – Pink	714-0052
Size I4 – Blue	714-0053
Size I6 – Green	714-0054



## **SportsGuard**<sup>™</sup>



Better Fit...SportsGuard's unique material achieves a fit as accurate as a dental impression, even when orthodontic appliances are in place. If a patient is receiving orthodontic treatment, SportsGuard can be refitted several times as tooth movement occurs.

Better Function...SportsGuard's patented dual-component design uniquely absorbs and dissipates severe blows to the mouth throughout the appropriate bone structure of the face, reducing the chance of facial and oral injuries as well as long-term trauma. Each SportsGuard is individually packaged.

Translucent "Ice Blue" (IO Pack) Solid Black (IO Pack)

710-0151 710-0152



## **Travel Toothbrushes**

Designed for the orthodontic patient's use away from home. Ideally suited for carrying in shirt or purse. Bristle portion fits into handle, maintaining sanitary condition for continued use. Available in assorted colors - red, pink, blue, yellow and green.



## **SmoothEase**<sup>™</sup>

#### Silicone Relief Strips

A new alternative to conventional brace wax, SmoothEase Silicone Relief Strips are made from a unique silicone material that provides maximum patient comfort and reduces soft-tissue irritation. Softer and smoother than wax, SmoothEase mechanically locks around brackets for longer lasting and more-comfortable wear compared with traditional brace wax. SmoothEase removes easily in one piece for less mess and to preclude ingestion. Each patient pack contains three silicone relief strips, clear usage instructions and a small mirror for fast and easy application.

#### Package of 40 patient packs 757-0010



Patient Wax (Not Shown) Individually packaged. 757-0001

#### SECTION IO PAGE 4

#### **SUPPLIES**

Straight Electrode	
<ul> <li>Stops and tiebacks.</li> </ul>	

- Stops and tieback
- Elastic hooks.
- Combination of up and down hooks with headgear or Class II or Class III elastic hooks.

Package of IOO	
.025 Brass Wire	758-0025
.028 Brass Wire	758-0028
.032 Brass Wire	758-0032

## Ball Electrode

- Lingual arches.
- Reinforcing wires on models.
- Attachment of auxiliaries.
- Elastic hooks to bands.
- Reinforcing lingual surface of anterior bands.
- .032 brass wire.

#### Package of IOO

Small

Large

Medium

758-0232
758-0233
758-0234

#### Cross-Elastic Electrode

- Attach to bands for cross-elastic wearing.
- Ball at end to prevent tissue irritation.

Package of	100	
.028 Brass	Wire	758-0328

#### Notched Electrode

- Stops and tiebacks.
- Elastic hooks.
- Headgear hooks.
- To carry solder to a joint for attachment of auxiliaries such as "H" springs and torquing springs.

Package of 100.025 Brass Wire.028 Brass Wire.032 Brass Wire

758-0125 758-0128 758-0132

## Articulator and Supplies

Compact yet fully functional articulator, wax forms and metal or acrylic typodont teeth offer the orthodontic student an improved educational aid. Typodonts can be banded or bonded.



Wax Forms					
Class	I, Crowded				
Class	II, Division	I.			
Class	II, Division	2			
Class	ш				

Articulator Plastic Teeth Metal Teeth

```
709-0010
709-0007
709-0008
709-0016
```

709-0012 709-0013

709-0014

### Utility Wax

(Not shown) Conveniently packaged in a 1 lb box. 757-0004

## Silver Solder

Dead-soft silver solder offers excellent flow action for easy working. The high silver content has been formulated for orthodontic chrome alloy use, cadmium free. Packaged in timesaving 1 dwt plastic container.

.015 Wire 759-0015 .025 Wire 759-0025

## Orthodontic Soldering Flux

(Not shown) A truly excellent soldering flux made expressly for chrome alloy orthodontic appliances. For continued excellent results, thin only with distilled water.

2 oz Jar 759-0002



#### **Retainer Cases**

Vented front and back, this highly durable retainer case provides security for both upper and lower retainer storage. The one-piece snap-lock fit prevents accidental opening.

710-0000	Black	710-0013
710-0001	Teal	710-0014
710-0010	Green	710-0015
710-0011	Yellow	710-0016
710-0012	Orange	710-0017
	710-0000 710-0001 710-0010 710-0011 710-0012	710-0000     Black       710-0001     Teal       710-0010     Green       710-0011     Yellow       710-0012     Orange



#### **Bonding Seminar Kit**

The perfect tool for in-office training and bracket placement demonstrations. This kit provides all the necessary materials required to "strap-up" one complete study model.

Kit	740-0110
Typodont Only	709-0009

2010.00

#### Cephalometric Protractor/ Tracing Template

A transparent calibrated metric scale from center-zero index to 150 mm, a 180° protractor with a pivoting straight edge, and cutout tooth symbols for tracing directly over cephalometric X-ray film.

#### 760-0000



#### Patient Hand Mirror

Attractive, useful mirror for treatment room use. Glass measures 31/2" in diameter. Patient can hold mirror while receiving instruction.

714-0000



### **SUPPLIES**

## **OptiView**<sup>\*</sup>

## Lip and Cheek Retractor

Unlike most conventional retractors, OptiView is a progressive retractor that provides uniform lip and cheek retraction for greatly improved intra-oral access. Designed to conform to the natural anatomy of the mouth, OptiView minimizes tension, providing continued comfort throughout lengthy procedures.

Suitable for uses in the following applications:

- Diagnostics
- Preventive and therapeutic dental and orthodontic procedures
- Intra-oral photography
- Tooth preparation
- Impression taking
- Prophylaxis
- Bleaching
- Occlusal analysis

#### OptiView Standard Kit 716-0050 Contains: Two lip and cheek retractors with mounted cushions OptiView Small Kit 716-0051 Contains:

Two lip and cheek retractors with mounted cushions

OptiView Refill Cushions (10/pk)

716-0052

## Optimal retraction without additional hands or instruments.

- 1. Anatomically shaped maxillary and mandibular lip cradles provide superior access to the buccal and gingival areas.
- 2.Lip cradles include an opening for the frenulum to provide greater comfort.
- 3. Cushioned lip supports position the lips an ample distance away from anterior teeth and gums.
- 4.Latex free and autoclavable at 273°F/134°C (3 minutes).
- 5. Autoclavable lip cushions can be removed from the frame to facilitate cleaning.



### **Complementary Product**

See various sections of this catalog for the following product that complements OptiView.

• Insignia





## Section Eleven



## Allesee Orthodontic Appliances

**AOA Personal Services** page 2 3 Simpli<sub>5</sub> page 4 **Breathe Easy** page 5 AdvanSync page 6 Miniscope Herbst page page 7 MARA 8 Distalizers page 9 **AOB** Appliances page 10 **TAD Assisted Appliances** page 11 Light Choice Arch Development page 12 Fixed RPE'S page 13 **Removable Functionals** page







- page14Labial Indirect Bondingpage15Lingual Indirect Bondingpage16STb Light Lingual Systempage17Archwire Extender
- pageI8Hawley Retainers
- page 19 Spring Retainers
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- page 23 Pendulum
- page 24 Typodont Consultation Models

## SECTION II PAGE 2 ALLESEE ORTHODONTIC APPLIANCES

## AOA Laboratory Your Trusted Source for a Complete Range of Customized Appliances

Dear Doctor:

For more than 35 years, AOA has set the standard in providing the profession with a full range of custom-crafted appliances essential to the success of their practices. We are honored to serve you and welcome the opportunity to continue meeting your laboratory requirements.

AOA's senior management and technical team produces not only top quality appliances that are returned to you in a timely fashion for a fair and competitive price, but also continues to teach and cross-train our associates the intricate details of manufacturing your appliances. AOA's mission will never change and we will always strive to exceed your expectations.

AOA's state-of-the-art Centralized Communication Center provides accurate and actionable user support for all inquiries in a professional manner. For maximum convenience, we have three manufacturing locations: Sturtevant, Wisconsin; Enfield, Connecticut; and Calexico, California. You may contact the Center at 800.262.5221 from 7 a.m. until 6 p.m. CST.

AOA has a rich history innovating many orthodontic appliances that are now commonplace in the profession. Through our comprehensive product line, commitment to the success of your practice and dedication to the advancement of the profession, AOA will continue to assist you in setting new standards of excellence every day you practice.

Thank you for trusting AOA laboratory for your practice and patients.

Sincerely yours,

Mill of allow

David Allesee President, AOA

John Dargis Vice President Sales and Marketing, AOA

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# Simpli<sup>5</sup>

AOA's Simpli5 is an express aligner system that provides a fast, effective and simple solution to minor and intermediate anterior misalignments. The patient wears five appliances per arch that are programmed with incremental correction to move the teeth to their desired end result. There's one simple-and-attractive fee per arch (upper and lower), which allows you to quote the right treatment cost to your patients.

Every Simpli5 treatment can be supplemented with two "refinement" aligners if needed to fine tune the final results. In this instance, you'll just forward the original set-up models and new impressions to our customer service department.\*



The Simpli5 Clear Aligner System is perfect for minor to intermediate tooth movement, and can be used in most relapse cases.



Consultation Models with a set of aligners are great for in-office education!



Aligners are marked for easy identification with one dot representing each aligner (upper blue/lower red).



These arches represent a typical Simpli5 case that would stay within the limitations of the appliance.

\*Extra charge for refinement appliances.

## Breathe Easy Sleep - Snoring

Obstructive sleep apnea (OSA) can be treated in many patients with the use of a removable dental appliance. The most common approach is the forward positioning of the mandible to a "Class III" type relationship to the upper jaw. AOA's appliances offer a range of options - all removable. Appliances can be mechanically attached between upper and lower arches, or a single unit. All appliances require a healthy dental environment but can be modified in material choices to accommodate various considerations such as under-cuts and potential periodontal problem.

The cause of snoring may be a serious medical consideration and it is advisable that all complaints be referred to the patient's physician for evaluation before dental intervention is considered or initiated.



Breathe Easy™ Splint





Upper Breathe Easy<sup>™</sup> Splint

Breathe Easy™ Removable Herbst®



Breathe Easy™ Elastic Mandibular Advancement Appliance (EMA)

#### Suggested Reading Material

Shoaf, S.C.: Sleep Disorders and Oral Appliances, J. of Clin. Orthod. Vol XL No. 12 (Dec 2006). Rider, Ernest A.: Removable Herbst Appliance for Treatment of OSA, J. of Clin. Orthod. Vol XXII No. 4 (Apr 1988).

## AdvanSync<sup>™</sup> Class II Molar-to-Molar (M2M)

AdvanSync<sup>™</sup> represents a breakthrough in functional appliances that makes it possible to treat Class II cases in Class I time. AdvanSync produces stable orthopedic changes while it advances the mandible to a Class I occlusion in just six to nine months. This occurs while the patient has brackets placed upper and lower 2nd bicuspid to 2nd bicuspid. AdvanSync's arms are 50% shorter than arms used in Herbst® appliances, minimizing mouth discomfort. Unlike removable appliances, AdvanSync does not create speech problems and patients adjust to it very quickly. AdvanSync is ideal for patients in mixed or permanent dentition. AdvanSync was developed in collaboration with one of the worlds leading Class II authorities, Dr. Terry Dischinger. AOA is the only lab licensed to produce the custom AdvanSync Molar-to-Molar series.

AOA's expert lab technicians fully customize AdvanSync appliances to each doctor's specific preferences and needs. Visit www.aoalab.com or call 800.262.5221 for more information.



AdvanSync Molar-to-Molar



AdvanSync sits further back in the mouth and is virtually unnoticeable.



AdvanSync's arms are half the size of those in traditional Herbst<sup>®</sup> appliances for greater patient comfort.

Herbst® is a federally registered trademark of Dentaurum, Inc.

# Miniscope<sup>®</sup> Herbst<sup>®</sup>

The use of the "fixed functional" appliance continues to grow as witnessed by the many new designs of Herbst<sup>®</sup> type appliances. Now AOA offers an updated telescope design called the MiniScope<sup>™</sup> Herbst<sup>®</sup>.

There are several significant advantages to this design. First, the mechanism is a self-contained telescope that cannot disengage when the patients open wide, unlike the traditional Herbst<sup>®</sup> which comes apart. This potentially reduces emergency appointments. Another major advantage of the MiniScope<sup>™</sup> is the doctor's ability to better position the lower pivots (attachments) near the lower second bicuspids instead of the first bicuspids. By moving the lower pivot distally a full tooth position, the tissue is much less prone to irritation and the patient settles into the appliances more readily.

With a telescoping mechanism, the lower pivot can be positioned near the second bicuspid and the upper pivot can also be placed at the center of the crown (or reinforced band). This aids tremendously during the insertion and adjustment appointments in gaining access to the hex head screw, which secures the mechanism in place. In addition to the MiniScope<sup>™</sup> Herbst<sup>®</sup>, we offer the hex head screw called the AppleCore<sup>®</sup>, which connects the telescoping mechanism to the cantilever bar and the upper molar crown or band. The AppleCore<sup>®</sup> screw improves upon the restricted lateral movement of a standard Herbst<sup>®</sup> pivot due to its curved inner radius. Not only does the curved inner radius offer more lateral freedom for the excursion of the bite, but it reduces stress on the overall appliances that we believe will reduce appliance breakage.

AOA has over twenty years of Herbst<sup>®</sup> fabrication experience, producing thousands of Herbst<sup>®</sup> annually. You can count on AOA for every design and every mechanism.



Herbst<sup>®</sup> Miniscope™





Herbst®



AppleCore<sup>®</sup> axle and archwire tubes

Herbst<sup>®</sup> Miniscope<sup>™</sup> open occlusion with open crowns

## MARA®

The MARA® (Mandibular Anterior Repositioning Appliance) is a simple and durable Class II corrector. The appliance is attached to the patient's first molars (or in very young patients, the deciduous second molars) with stainless steel crowns. Heavy-duty or Rollo bands may also be used. The advantage of a "noncompliance" approach to Class II correction is reliability and shortened treatment time.

The upper "elbows" are removable, allowing the clinician to make adjustments for further bilateral or unilateral advancement in skeletal midline asymmetry cases. Patients generally adapt to the MARA® in a few days and sore spots are minimal. The lower "arms" are permanently attached.

Upper and lower archwire tubes with hooks are standard features, allowing the clinician the option of using fixed mechanics during MARA® therapy. A lower lingual arch is also a standard element of the appliance. Other popular options include an upper Transpalatal Bow (TPA), and a variety of palatal expansion screws and habit devices. An accessory kit of parts is available, which includes advancement spacers, extra elbows and a torquing tool to aid in adjusting the elbow if required.

The smaller size of the appliance increases comfort and aesthetic appeal for patients.



The smaller size of the appliance increases comfort and aesthetic appeal for patients.



MARA® can be used with brackets as a molar to molar option.

#### **Evolution of the Mara® Appliance**



Circa 1997



Circa 2000



Circa 2009

## Distalizers

It is now possible to distalize maxillary first and second molars and retain the results with one appliance. The Distal Jet<sup>™</sup> is a fixed lingual appliance that can produce unilateral or bilateral molar distalization and rotation corrections, usually in four to nine months, without patient compliance. Nickel-titanium coil springs (240g) provide forces for predictable results. The springs are driven by a unique set screw activation lock. After molars are distalized the Distal Jet<sup>™</sup> can be converted into a Nance holding arch with a few easy adjustments - without removing the appliance (180g springs are available upon request).

Limited expansion can be introduced with the addition of an expansion screw to the acrylic button. If significant expansion is required, the use of a palatal expander prior to molar distalization is recommended.

The Mambo Jet uses a "sistered" tube to compress the spring while the screw/tube combination slides easily along a heavy wire, parallel to the director tube. The set screw is tightened onto the wire with simply no chance of over activating. The spring is compressed and the Jet slides without friction. This modification is available with all Distal Jet<sup>™</sup> and Spring Jet appliances.



Mambo Distal Jet<sup>™</sup> and Pendex

#### These Appliances can be used with TADs



**Bowman Horseshoe** 



Mambo Distal Jet™



Lower Mesial Jet™

# **AOB** Appliances

The custom AOB Intrusion Splint is patient specific in design and made by laminating a special pressure formed plastic base with orthodontic acrylic. Two transpalatal wires connect the right and left quadrants for stability, preventing buccal flaring during treatment. Typically four "ball-hooks" are provided on each buccal segment for choice in force application.

What to send to AOA for construction: Upper and lower stone or orthodontic plaster models... or PVS impressions. The construction bite should be included reflecting a minimal opening of 2 mm between the 1st molars. Our goal is to provide the thinnest, most durable comfortable splint possible based on the patient's specific requirements.

If the patient is currently bracketed you may choose to retain the brackets and AOA will carefully fabricate the splint to accommodate the appliances. Just comment on the Rx form that you wish to retain the brackets. Splints made for patients without posterior brackets include archwire tubes as illustrated in the images below.

The AOB Retainer designed for use after intrusion is removable and includes habit screen, labial bow, hooks for spring attachment for clasping if requested.



**AOB** Splint





**AOB Retainer** 

**AOB Splint with springs** 

# **TAD Assisted Appliances**

In the current orthodontic market, the use of Temporary Anchorage Devices has dramatically increased in comparison to the use of TAD's just 5 years ago. It has become an expected option within most residency programs, and another great tool in offices around the world.

As increasing numbers of Doctors purchase TAD systems the demand for additional applications has also risen. Due to this demand, AOA has responded with a focus to incorporate the use of TAD's into many of our standard customized appliances. In doing so, many doctors have requested personal designs, creative ideas, as well as, new appliances that have added to the list of TAD applications in the industry.

Not only does AOA encourage you to explore some of the common TAD, custom appliances, such as the CIII Jet, or the Smith Molar Protractor, we would further appreciate that if you have an idea that you have not seen from us using TAD's, please feel free to draw and describe it on one of AOA's RX forms and send it in. We will be happy to customize your appliance to your preferred mechanics as well as the patient's needs.





**Bowman Horseshoe with TADs** 

Mambo Jet<sup>™</sup> with TADs



Smith Molar Protraction



CIII Jet™ - Class III



Multi-Use Transpalatal Appliance



Protraction Transpalatal Appliance

# Light Choice Arch Development

Light Choice appliances are designed to deliver light force when phase one expansion is required. From special open coil springs to titanium alloys, AOA has the right appliance for your patient.

If the upper arch requires an additional expansion assistance, AOA has several low force options. These include the spring jet and specially designed wire expanders utilizing today's unique alloys, as well as traditional stainless steel. Each expander is designed to be patient specific and deliver low consistent force.



W Arch



Quad Helix



Ni-Ti<sup>®</sup> Temperature-activated Expander



**TMA Removable Expansion Arch** 



**Spring Jet** 

# Fixed RPE'S

Rapid Palatal Expanders from AOA are available in banded, stainless steel crown, acrylic, or vinyl pressure-formed styles. The traditional banded appliance requires bands properly seated on molars or molars and first bicuspids. The "modified" design, with bands on only the molars, is the optimal design for patients with mixed dentition. AOA can provide and seat either bands or crowns.

A variety of screw assemblies are available from AOA. Our standard 11 mm double-guide pin unit is provided unless an alternative style is requested. If the Haas RPE is requested, a 10 mm acrylic-borne expansion screw is provided. Popular alternatives include the AOA mini and Snap-Lock ratchet expander, both of which are applicable for lower fixed expansion.

Adjuncts can be added for a wide variety of therapeutic purposes. These include reverse-pull facemask hooks, archwire tubes, habit cribs, and debonding aids (with bonded appliances). Custom colors are also available for our acrylic bonded expanders.

With our fixed expanders, you will receive your choice of activation keys; either the safety strap by request or swivel stick key which comes standard. You will also receive a reminder card indicating the total expansion capability and number of activation turns.



Ratchet Snap Lock RPE



**Standard RPE Four Armed** 



**Ex Spider** 



**AOA Mini RPE** 



Add RPE's to Class II Appliances such as the Herbst<sup>®</sup> or MARA<sup>®</sup>.



Bonded RPE

## **Removable Functionals**

AOA can provide virtually all of today's popular functional appliance designs, from the two arch designs to the single arch active plates. Special attention is critical for coordination of the arches for the role acrylic plays in the eruption dynamics and growth modification. Our technical staff is trained to understand the important relationship of construction bites and model articulation in order to obtain the maximum potential benefits of "Functional Appliances."

Expansion screws in many variations are available including Ni-Ti $^{\circ}$  spring enhanced screws for less rigid but consistent force.

AOA custom art acrylic designs are an essential part of patient cooperation. Just refer to our Acrylic Color Chart for ideas and choices.

Customer Technical Support is key for successful and consistent functional appliance service.AOA has specialists on hand to help your office with all appliance design issues. Please send us a wax bite reflecting advancement and vertical opening needed.



Twin Block





**Lower Sagittal** 

Upper Schwarz



Frankel II



Williamson Orthopedic Corrector

# Labial Indirect Bonding

Adding indirect bonding to your routine makes the best use of technological advances in today's bracket and archwire systems. Labial indirect bonding offers you efficiency in initial bracket placement while also decreasing chair time and reducing bond failures. Posterior bracket placement is especially enhanced with better positioning and more dependable bond strength.

AOA's indirect bonding service is designed to consistently provide you with accurate placement and successful transfer of brackets en masse to the patient's teeth using a variety of bracket systems and adhesives along with moisture-tolerant sealants. AOA uses a custom composite pad on the bracket base to ensure a contoured fit against each tooth. The clear two-tray delivery system is compatible with today's advanced light-curing methods, yet works as well with self-curing sealants and light-bodied pastes.

AOA's experienced technicians use precision bracket placement equipment to accurately reference and place the brackets to standard and/or specific guidelines. For optimal results, we encourage doctors to review the patient's Panorex and scribe on the work model in pencil the long axis and slot line for each tooth to be bracketed as an added reference. This step takes a couple of minutes but is particularly beneficial when addressing finishing considerations.

Accurate results start with accurate work models, so pour the models in stone immediately after taking the impression, or if you use PVS impression material, you can send the impression "unpoured" to the lab for processing.

Regardless of your experience with indirect bonding, its successful implementation of the technique requires a close relationship between your practice and AOA's indirect bonding team. Consider them as an extension of your office - they're always available to answer your questions. Remember, we can place all manufacturers' brackets. AOA does not provide brackets; they need to be forwarded with the case.



**Labial Indirect Bonding** 

# Lingual Indirect Bonding

Now featuring the STb mini bracket and Social 6 application. AOA's lingual indirect department offers several methods and techniques for bonding lingual brackets. The approaches can be tailored to your specific patient as well as office experience level. Unlike labial, AOA can provide or, we will place other manufacturers' brackets provided by the doctor.

You may request your cases include a single patient kit of clinical bonding resin, light activated Enlight LV with OrthoSolo sealant. Because the custom composite pads are compatible with most clinical bonding mediums, you may elect to use your own bonding material.

All of AOA's techniques allow for requested over corrections of rotations as well as torque and angulation. This is especially critical in extraction cases or patients presenting with missing teeth. The CLASS method adds the element of precise lot height and "In and Out" thickness consistency. The process is designed to approach bracket placement as total arch coordination. The set-up may also be used for positioner fabrication. CLASS may be selected for single or dual arch treatment. A further evolution of the CLASS method is the Straight Wire option. This approach drastically reduces the cuspid to bicuspid arch wire off-set bend. The entire wire sequence, from Copper NiTi to the finishing wire, is comprised of straight curved wires carefully selected for each patient's unique arch shape. AOA can compliment your Indirect Bonding case with your patient's specific arch wire needs.

Our standard TARG (Torque Angulation Reference Guide) technique utilizes detailed bracket placement based on individual tooth positioning as related to the guides and templates of the TARG instrument. The method offers great economy and high accuracy, especially when treating a single arch with lingual brackets.



Social 6 and Full Bracket placement





Lingual Brackets with Lower Tray seated

Brackets seated in transfer trays



**Two Part Tray with Brackets** 

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# **STb** Light Lingual System 7-7, Social 6 and Straightwire

With their reduced size and rounded contours, STb brackets provide maximum patient comfort. Light-force mechanics of the light lingual system decrease stress of dental movement, making treatment far more gentle to the tissues.

STb have minimal impact on tongue position and speech. Clinical studies demonstrated negligible speech difficulty just after bonding, which disappeared completely within a matter of days. You and your patients will also appreciate the improved access proved for better oral hygiene.



Comparison view between the STb and an earlier lingual bracket showing reduced profile and rounded contours.\*

### Archwire Sequence/Ligation

Requires a low-force Ni-Ti<sup>®</sup> or Copper Ni-Ti<sup>®</sup> archwire. Place a .013 wire during initial leveling and alignment phase, and a .016 wire for additional alignment if necessary. A steel ligature .008 or .009 is recommended, but you may use .110 or .120 elastic ligature - no over tie is required. Check the archwire for distortion during control visits and replace as needed. Working time for both wires is approximately four months.



Easy to use. Each case shipped with ligature ties and wires.



STb<sup>™</sup> Social 6 with Archwires



STb Social 6



\*Image provided by Dolphin Imaging & Management Solutions



STE

Upper STb<sup>™</sup> Straightwire

**Lower STb Straightwire** 

# Archwire Extender

The archwire extender is an accessory inserted into the molar tube to extend the function of the molor tube. This extender allows the practitioner to place a single rectangular archwire through the tube and not have it become dislodged during corrections. The majority of cases use the extender in the maxillary arch first, then in the mandibular arch as needed. By using the extender, the operator is still utilizing the light force, low friction concept to the maximum, and early treatment is now achievable in cases which traditionally would have required extractions.

The archwire extender is an economical accessory to treatment where a single rectangular archwire is used rather than multiple wires. Easy to insert, comfortable for the patient, and economical for the practitioner, the AOA extender is a valuable adjunct to all early Damon treatment!

The archwire extender is available with a tube size of .022" x .028". Each extender is universal for maxillary and mandibular applications, left or right.

Available in Packages of 10 Order Part Number: 1604-3322



Archwire Extenders



**Close-up views** 



Archwire Extenders decrease interbracket distance while using flexible wires.



Archwire Extender Diagram

# Hawley Retainers

Although AOA fabricates Hawley retainers in many ways, our most popular method is to use a plaster model that impressions were taken before debonding the brackets. This method allows AOA ample time for fabrication, while allowing the patient to receive their retainers on the day of debonding. Many doctors have found this method an efficient way to transition from brackets into retention. Fabrication requires you to take the impressions right over the brackets and pour the models in either plaster or stone.

AOA's retainer department can process virtually any clasping request; finger springs, and acrylic modifications such as bite planes and occlusal coverage. A wide variety of expansion and single tooth movement screws are available.

Anterior and posterior pontics may be requested in most of our designs, or in your custom design. Just indicate shade preference and we can match the shade with precision. Tissue compatible opaque acrylic may be requested to enhance the fit and blending of the pontic against the patient's contour. AOA provides a shade chart for a small fee.



Pontics can be matched in all shades.



Custom designs available. What's your favorite sport, hobby, pastime, activity, or animal? We have it all - you ask for it and we'll make it!





Maxillary Wraparound Hawley with stabilizing wires

Dual Loop Hawley



**Standard Lower Hawley** 



Upper Wraparound Hawley with QCM Labial Bow optional

# Spring Retainers

AOA's most popular designs are ideal for correcting minor incisor irregularities such as rotations and tipping. The Spring Retainer can also be utilized for passive post orthodontic retention where severe rotations have been corrected. AOA will reposition the incisors ideally or as ideal as the malalignment will allow. If requested AOA will reduce (strip) the contacts of each or selected incisors to create sufficient space when constructing the set-up. The appliance is self-activating due to the changes "programmed" into the construction model by the set-up. The appliance stretches around the irregular incisors and coaxes them into position. Over-corrections can be introduced into the set-up for additional force. TMA may be substituted for AOA's special spring wire to accommodate unusual degrees of correction.

A valuable attribute of our designs is that if on occasion the patient discontinues wearing the appliance for a period of time the appliance will normally "flex" sufficiently to seat despite some incisor movement and re-engage the teeth for correction.



**Upper Helix Coil Spring Retainer** 





Upper Pro Active I Spring Retainer

**Pro Active Spring Retainers** 





Upper Modified Spring Hawley Retainer

**Mushroom Spring Retainer** 

### SECTION II PAGE 20 ALLESEE ORTHODONTIC APPLIANCES

# Red, White & Blue

The Red, White and Blue aligner system offers a solution to those adult dentition patients who are just outside the normal range of other removable tooth aligning appliances, such as Hawley or spring type retainers. RWB is ideal for patients who want the simplest aesthetic system possible to correct minor to intermediate incisal tooth malalignments. In addition to being aesthetically pleasing, RWB will not affect the patient's speech and is very cost effective.

AOA will reposition the incisors ideally or as ideal as the malalignment will allow.



Red, White and Blue Aligner System is perfect for minor spacing or crowding and is an ideal appliance for relapse cases.



The above representative arches display a typical candidate for RWB from initial to ideal.





Sample set-up with a set of aligners. Aligners are identified with Red, White and Blue dots.

Consultation models with a set of aligners are great for in-office education!

## Positioners

The positioner has been considered by many clinicians to be the most complete means of finishing orthodontic treatment. Combining modern materials and fabrication techniques with the experience of AOA's technical staff has advanced the positioner to a multipurpose appliance. Its reduced wearing time and light weight mean improved patient cooperation and a refined finish. Even if the patient doesn't wear the positioner as prescribed, the super elastic material will engage and correct alignment.

Our set-up technicians can process your gnathnological cases on virtually any articulator system, including the High Post Panadent and the Sam III instruments.

Our positioner department has the skill to fabricate accurate and cost efficient "bench" set-ups and positioners. We also specialize in partial and diagnostic set-ups.

The majority of the positioner cases forwarded to AOA have the brackets reflected on the models. We remove the brackets and fabricate the set-up and positioner. This method allows the "immediate" placement of the positioner upon clinical bracket removal when teeth are most susceptible to guidance.

All of our positioners and mouthguards are custom trimmed to your exact specifications. Their thickness and height can be tailored to produce the perfect blend of patient comfort and appliance efficacy. Custom mouthguard information is obtainable by calling our Centralized Communication Center.



ProFlex<sup>™</sup> and FlexiClear<sup>®</sup> Positioners





**Snoring Positioner** 

**ProFlex™** Positioner



**Articulated Set-ups** 

# Splints

AOA can process splints in many designs. Images of the most popular ones are listed here. Specific designs and preferences can be incorporated into your technical standing instruction file (TSI).

Most splint designs can be processed in several choices of materials or combinations of materials: splint acrylic, thermoplastic acrylic (which softens slightly when worn) and a soft or hard pressure formed clear plastic. Variflex heat softening acrylic provides a great option for an entire semi flexible splint, or in combination with hard acrylic when the occlusal scheme and disocclusion is indicated. Options such as clasping or reverse pull facemask hooks should be requested on the Rx form.

The critical factor in any splint fabrication is the construction bite provided with the models. The bite should reflect both the desired inter-occlusal thickness and the horizontal relationship of the upper and lower jaws. Models mounted in an adjustable articulator may offer the best combination of arch positioning and working and balancing movements. AOA is equipped with Panadent, SAM and Denar systems as well as our exclusive hinge axis system.



The Damon Retention Splint is perfect for retention of Class II and III cases in addition to the retention of posterior arch development.





**AOB Splint with TAD's** 

S.R.S. - Superior Repositioning Splint





Gelb or Mora Appliance

Upper Anterior Repositioning Splint

# Pendulum

Pendulums provide consistent and dependable upper molar distalization without patient cooperation concerns.

Since its introduction, the pendulum has undergone numerous changes that have greatly improved patient comfort, eased appliance placement and activation, simplified design, enhanced stability and improved overall response. Several variations are being used successfully. (T-Rex, Pendex, Penguin, PHD, MDA, etc.) Overall, the primary force is still generated by bilateral TMA .032 pendulum springs. The springs, when activated 60-90 degrees, generate approximately 200 grams of force. The distal end of the springs slide into lingual sheaths welded to the molar bands. (Anterior anchorage of the Nance button should be in four locations however this may vary by patient.) Some pendulums do not require acrylic such as the MDA or PHD.



Pendulum





**Mayes Penguin Distalizer** 

Tracey Hilgers Mini Expander & Distalizer MDA



T-Rex

# **Typodont Consultation Models**

Urethane models in nearly 50 different occlusions are available for demonstration purposes. These models are suitable for either removable appliance or fixed bracket displays. You can choose a variety of typodonts and combine them into a customized presentation binder, e.g., Class I, Class II, Class III, crossbite, openbite, mixed dentitions, and many more possibilities. Your practice can benefit by illustrating treatment models to patients and parents as well as providing an excellent teaching aid for new staff members and referring offices. Consider purchasing binders for your most productive referring offices as a gift.

In addition to patient consultation, many doctors find that these models, with removable, or fixed appliances, are helpful in study club and group presentations for referring dentists. The urethane models are much more durable than acrylic and can be easily duplicated with alginate and plaster to produce "working" models for a variety of training functions.

Call for a complete listing of models, prices and articulator choices. If requested your office logo can be embedded in clear urethane on the top of the model.



MiniScope<sup>™</sup> Herbst<sup>®</sup> on an ideal model.





New MARA<sup>®</sup> Arm fully extended on Class II Typodont.

Herbst<sup>®</sup> on an AOA Typodont. Perfect for any consultation room.



Plain Typodonts are available in a variety of malocclusions.



Simpli5 consultation models with binder are available displaying before and after treatment models.



Custom logos can be applied to top of models.

## Section Twelve

## Instruments

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# AEZ

AEZ Orthodontic Instruments was founded in 1973 by Al and Adry Ezcurra and joined the Ormco family in 1990. From the beginning, AEZ instruments have been recognized for their superior design and unparalleled craftsmanship. All AEZ cutters and pliers feature a one-piece design that enhances their ability to withstand the rigors of daily sterilization procedures and eliminates the risk of galvanic reaction and the resultant corrosive effects. AEZ cutters also include tips that have been specially heat treated to a Rockwell hardness of 63, and inserted cutters contain a cobalt steel tip for increased hardness and durability.



ETM was founded in 1956 and joined Ormco in 1994. Since its inception, ETM has been the leader in providing orthodontists with the highest quality, most durable instruments in the industry. What continues to set ETM instruments apart are their design and construction features, including the use of highly corrosion-resistant, surgical-grade stainless steel and strong factory-adjustable joints. ETM cutters are hard chrome plated and contain diamond-honed tool steel inserts, for a lifetime of use. Most ETM pliers are also manufactured from technologically advanced XQ25 stainless steel forgings for added strength.

## Cutters

AEZ

### Distal-End Cutter with Hold

Properly angulated blades permit cuts of round and rectangular wire at distal-end of buccal tubes while preventing the cutoff portion of the wire from springing loose. Maximum cutting capacity is .022 x .028.

803-0103



## Long Handle Distal-End Cutter with Hold

Same characteristics as Model 803-0103. Handles are 12 mm longer. Maximum cutting capacity is .022 x .028. **803-0113** 

## Ezcurra Mini Distal-End Cutter with Hold

These cutters have the additional feature of a mini tip designed for easier access distal to the buccal tube. The blade design enables the clinician to make cuts within 0.5 mm of the buccal tube, while the "hold" feature prevents the cut-off portion of the wire from springing loose. Maximum cutting capacity is .022 x .028.

Long Handle 803-0510 Short Handle 803-0511



## Mini Distal-End Cutter with Hold

The slim head allows easier accessibility to confined areas of the arch. The blade design enables the operator to make cuts within 0.5 mm of the buccal tube, while the "hold" feature prevents the cut-off portion of the wire from springing loose. Maximum cutting capacity is .022 x .028.



## Long Handle Mini Distal-End Cutter with Hold

This instrument features the same characteristics as Model 803-0500. Handles are 12 mm longer than standard instruments. Maximum cutting capacity is .022 x .028. **803-0501** 

#### Hard Wire Cutter

Oval tip design. Consistent brazing and stronger braze joint. Maximum cutting capacity is .022 x .028.

803-0506



## AEZ Cutters (cont.)

### Slim Ligature Cutter

Slim tip design to provide easier intraoral accessibility. Maximum cutting capacity is .015 soft ligature wire. 803-0101



## Long Handle Slim Ligature Cutter

Special 12 mm longer handles with the same features as Model 803-0101. Maximum cutting capacity is .015 soft ligature wire.

803-0111

## Ezcurra Pin & Ligature Cutters

These solid chromium molybdenum stainless steel cutters, hardness grade 63 Rockwell C, are crafted from one-piece construction for better stability and corrosion resistance. Available in two tip configurations: Mini Pin & Ligature Cutter and Mini Pin & Ligature Cutter 15°. The 15° cutter allows for better access to difficult-to-reach areas. Long handles have 12 mm additional length. Maximum cutting capacity is .015 soft ligature wire.

#### Pin & Ligature Cutter – Long Handle (shown) 803-0512

Pin & Ligature Cutter – Short Handle 803-0513

Pin & Ligature Cutter 15° – Long Handle 803-0514



## Mini Pin & Ligature Cutter

This brazed cutter was specifically devised for cutting ligature wires. The slim head design provides excellent access to confined areas of the arch. Maximum cutting capacity is .015 soft ligature wire.

803-0502



## 15° Mini Pin & Ligature Cutter

This instrument features the same characteristics as Model 803-0502 except the cutting edges are angled 15° to provide better accessibility and visibility. Maximum cutting capacity is .015 soft ligature wire.

803-0504



## 15° Long Handle Mini Pin & Ligature Cutter

Same characteristics as Model 803-0504, handles are 12 mm longer. Maximum cutting capacity is .015 soft ligature wire. **803-0505** 

## Long Handle Mini Pin & Ligature Cutter

This instrument features the same characteristics as Model 803-0502. Handles are 12 mm longer than standard instruments. Maximum cutting capacity is .015 soft ligature wire. **803-0503**
## Cutters (cont.)

# ETM

## Distal-End Cutter

A precise cutter designed for cutting distal ends very close to the end of the buccal tube. High-speed tool steel inserts ensure superior cutting capability and long wear. Maximum cutting capacity: archwires up to .022 x .028.

800-1010 (1010)



## Distal-End Cutter with Safety Hold

One of the most popular cutting instruments in the ETM line, this instrument cuts wires close to the buccal tube and safely holds the distal end. Our diamond-honed, high-speed tool steel inserts ensure precision cutting, long wear and unsurpassed cutting performance. Maximum cutting capacity: archwires up to  $.022 \times .028$ .

#### 800-1116 (1016)



## Small Distal-End Cutter with Safety Hold

Cuts wires close to the buccal tube and safely holds the distal end. The diamond- honed, high-speed tool steel inserts provide unsurpassed cutting performance and long wear. Maximum cutting capacity: archwires up to .022 x .028. 800-1016 (1016-5)



# Long Handle Distal-End Cutter with Safety Hold

This instrument features extra-long handles and a compact head to ensure easy access to hard-to-reach places. The diamond-honed, high-speed tool steel inserts provide unsurpassed cutting performance and long wear. Maximum cutting capacity: archwires up to .022 x .028.

800-1017 (1016-XL)



## ETM Cutters (cont.)

# Flush Cut Distal-End Cutter with Safety Hold

The flush cut feature of this instrument allows the archwire to be cut flush with the buccal tube surface, eliminating the possibility of patient discomfort resulting from archwire protrusion. Additionally, the replaceable spring secures the cut-off wire segment.

800-0516



## Hard Wire Cutter

Heavy-duty jaws easily cut any size archwire, ligature or pin. The diamond-honed edges of the tool steel inserts will maintain their sharpness and perfect alignment. Maximum cutting capacity: archwires up to .022 x .028.

800-7001 (7001)



## Hard Wire Cutter (Black)

A black oxide finish distinguishes it from other cutters. The extra-strong edges of this popular cutter make it ideal for cutting all sizes and types of archwires. Features a 15° cutting angle for easy intraoral access. Maximum cutting capacity: archwires up to .022 x .028.

800-1200 (1000 HWB)



#### Hard Wire Cutter (Chrome)

The extra-strong edges of this cutter make it one of the most popular hard wire cutters in the world. Designed to cut all sizes and types of archwires, this cutter also features a  $15^{\circ}$  cutting angle for easy intraoral access. Maximum cutting capacity: archwires up to .022 x .028.

800-II00 (I00 HWC)



## Pin & Ligature Cutter

Designed to cut pins and ligatures easily and efficiently. Maximum cutting capacity: soft wire up to .015. **800-1001 (1001)** 



## Mini Pin & Ligature Cutter

This cutter has finer tips than Model 800-1001 for easier access to difficult-to-reach places. Cuts pins, wire ligatures and elastics. Maximum cutting capacity: soft wire up to .015. **800-1002 (1002)** 

## ETM Cutters (cont.)

## Micro-Miniature Light Wire Cutter

The sharp, pointed tips of this cutting plier are designed to cut wire and elastic ligatures and are diamond honed to cut quickly and efficiently. Maximum cutting capacity: ligature wire up to .012.

800-1003 (1003)



## Micro-Miniature Light Wire Cutter with Stop Screw

Adjustable stop screw prevents tip damage due to overstressing. Maximum cutting capacity: ligature wire up to .012. 800-1021 (1021)

## 15° Pin & Fine Wire Cutter

Tips are angled 15° to improve access. The high-speed tool steel inserted tips have backing ledges for greater strength. Maximum cutting capacity: soft or hard wire up to .015.

800-1000 (1000)



## 15° Pin & Ligature Cutter (dished nose)

Low-profile dished nose for access to difficult-to-reach areas. Adjustable stop screw prevents damage to the cutting edges due to overstressing. Maximum cutting capacity: hard and soft wire up to .015.

#### 800-1024 (1024)

## 45° Ligature Cutter

Angled tips provide easy access to posterior areas, eliminating cheek impingement. Also excellent for cutting lingual ligatures. Maximum cutting capacity: ligature wire up to .015.

800-1006 (1006)



# Utility Pliers

## How Plier (straight)

Extremely well balanced and lip-safe with serrated tips 3.2 mm (1/8") in diameter. Designed so that the centerline coincides with the axis of rotation.

803-0408



## Weingart Utility Plier

General-purpose plier with fine serrated tips for holding material at any convenient working angle. Tips are gently curved and have rounded outer surfaces to ensure comfort and safety whenever in contact with lips and oral tissue.

803-0401



## 45° Weingart Utility Plier

Designed to allow access to hard-to-reach areas of the mouth, is identical to Model 803-0401 but with tips bending at a 45° angle.

803-4015

## Slim Weingart Utility Plier

An efficient utility plier similar to Model 803-0401 but with smaller tips for better intraoral accessibility.

803-0601



## Long Handle Slim Weingart Utility Plier

Utility plier with the same features as Model 803-0601 but with handles 12 mm longer.

#### -

## Lingual Arch Plier

This heavy-duty plier features precision-ground grooves designed to securely grip .030 and .036 wire. Ideal for forming back bends in lingual arches for easy and consistent insertion into lingual sheaths.

803-0327



## CBJ Three-Jaw Plier

Heavy three-jaw plier for adjusting cantilever arms. Also good for modifying facebows and other heavy wires.

## Utility Pliers (cont.)

# ETM

## Weingart Utility Plier

Special features incorporated in ETM's Weingart style pliers make this one of the most popular in our line. Matching serrated pads hold wires firmly at a convenient working angle. Carefully tapered beaks fit easily between brackets and are slightly rounded for safety and comfort.

800-0158 (158)



## Straight Utility Plier (How style)

A versatile utility plier with a long tapered shape. The 3/32" diameter tips are serrated to prevent slippage. The tips are rounded for patient comfort and safety.

800-1110 (110)



#### 45° Weingart Utility Plier

Similar to Model 800-0158 but with 45° angled tips for convenient access to lingual and other difficult-to-reach areas. Serrated tips hold wires firmly at a convenient working angle. Carefully tapered beaks fit easily between brackets and are slightly rounded for safety and comfort.

800-0156 (E 8011)



## Stop (V-bend) Plier

Makes 1 mm V-bends anywhere desired in the archwire. Provides positive stops and prevents archwires from "walking." **800-0228 (E 220)** 



## ETM Utility Pliers (cont.)

## **Crown-Contouring Plier**

Designed to add contour or curvature by crimping trialfitted crowns. This contouring/crimping ensures that the crown fits securely on the patient's tooth.

800-0160



## Lingual Arch Removing Plier

Designed for horizontal and vertical sheaths, this plier safely unlocks the wire from the sheath. The serrated tips prevent slippage while removing the wire. Works equally well for placing lingual arches in sheaths.

800-0155 (155)



## Wire Utility Plier



# Wire Forming Pliers

# AEZ

## Nance Closing Loop Plier

Both edges of thin blades are fully radiused and stepped-in 3 mm, 4 mm, 5 mm and 6 mm for various size loop forming. All working edges are carefully beveled to avoid wire damage. **803-0405** 



## **Optical Plier**

Ideal forming plier for helical closing loops and arch adjustments. The concave beak has a precise configuration to keep the wire in place.

803-0204



## Loop Forming Plier

Facilitates making Bull, Omega and closing loops. This plier has one precision cylindrical three-step beak and one concave, serrated surface to hold the wire at a right angle to beaks while loop is being formed.

803-1404

## Slim Loop Forming Plier

Features a slimmer joint and tip-forming area for precise bends.

803-0424



## Bird Beak Plier

All working edges are carefully beveled to avoid wire damage. The cone and pyramid beaks are ground to 0.8 mm diameter at the tip and have clearance angles on the sides to allow for wire spring-back. Designed to be used with wires up to .030 in diameter.

803-0414



## Short Nose Bird Beak Plier

Shorter tips for excellent control. **803-0417** 



## Light Wire Bird Beak Plier

Longer, more gradually tapered beaks than Model 803-0414. Designed for working wires up to .016 diameter. Slender beaks make it easier to bend small diameter loops.



## AEZ Wire Forming Pliers (cont.)

# Light Wire Bird Beak Plier with Groove

Same as Model 803-0416 but with a groove in the rectangular beak 1.5 mm from the end (0.5 mm width and 0.25 mm depth). This groove facilitates wire location. **803-0415** 



## Three-Jaw Wire Bending Plier

Offers positive grip of wire for making critical bends and adjustments in orthodontic arches, retainers, and clasps. Properly engineered for working with hard material. All three beaks are fully radiused and all working edges are carefully beveled to avoid wire damage. Designed for wire up to .030.

#### 803-0413



## Slim Three-Jaw Wire Bending Plier

A slimmer version of Model 803-0413. **803-0412** 

## Arch Bending Plier (.050")

A light wire arch-bending plier that provides efficient handling of square and rectangular wires. Blades are 1.27 mm (.050") thick and designed to be parallel at 0.5 mm (.020") plier opening.

803-0403



## Arch Bending Plier (.075")

This plier is well designed to handle rectangular and square wires. Heavy-duty plier blades are 1.9 mm (.075") thick and designed to be parallel at 0.5 mm (.020") plier opening. **803-0402** 



## Hilgers Intraoral Arch Bending Plier (Universal)

Dual tip design allows for both left and right step bends. This instrument eliminates the time-consuming archwire removal normally required. Tips are at a 90° angle from handles to increase intraoral accessibility.



# Wire Forming Pliers

# ETM

## Bird Beak Plier

Our most popular and versatile instrument for working round wire up to .030. The round beak is precision ground to a perfect cone – .025" at the tip. The pyramid beak is exactly .025" wide at the tip and a 9° angle is ground on the sides to allow for wire spring-back. Beaks are parallel at .020" opening. **800-0139 (139)** 

# Loop Forming Plier (Tweed style)

Designed for making Bull and helical closing loops in square or rectangular wire up to .022 x .028. The replaceable tip has three precision ground sections of .045," .060" and .075" with an electroetched finish to prevent wire slippage.

#### 800-0350 (350)







wire slippage. **800-0352 (352)** 





Replacement Tips (2) and Wrench 800-1400

## **Three-Jaw Plier**

Precision aligned tips are gently contoured for consistent bends without nicking or fracturing the wire. One-piece construction of the double tip ensures superior strength and eliminates springing or spreading of the tips. Wires up to .030.

800-0200 (200)



Replacement Tips (2) and Wrench 800-1400

## **INSTRUMENTS**

## ETM Wire Forming Pliers (cont.)

## Wire Contouring Plier

Contours and forms arches without scoring or torquing. Wires up to .022 x .028.

800-2032 (203-B)



## **Rectangular Arch Forming Plier**

(Tweed style)

Designed for forming square or rectangular wires. The blades are designed to be parallel at .020" opening. Wires up to .022 x .028.

800-8100 (8105)



## **Rectangular Arch Forming Plier**

Same design features as Model 800-8100, except the blades are longer. Wires up to .022 x .028. **800-0810 (810)** 

## Lingual Arch Forming Plier

Designed to form double-back and triple-back bends in either .030 or .036 wire for lingual sheaths. A precise width of .140" is maintained to provide consistent repeatable bends. 800-0410 (410)



## Wide Rose Torquing Plier Set (.016/.018)

Designed to place torque in a specific section of archwire (single tooth) without distortion to adjacent sections of the wire. Set includes one wide torquing plier and one .016/.018 key. **800-0804 (805W)** 

Replacement Wide Key (.016/.018) 800-2618



## Wide Rose Torquing Plier Set (.018/.022)

Same as Model 800-0804, except this set comes with an .018/.022 key.

800-0805 (805W)

Replacement Wide Key (.018/.022) 800-2822



## **Debonding & Adhesive Removing Pliers**

# AEZ

## **Debonding Plier**

Blades designed to reach the back of the bracket without damaging the bracket wings. Blades are made of cobalt steel. **803-0104** 



## Debonding Plier (straight)

Designed for those who prefer straight blades. Adjustable stop screw accommodates varying bracket widths. **803-0105** 



## Adhesive Removing Plier

Specially designed to remove excess adhesive after debonding. Features carbide inserted tip on short beak and plastic interchangeable pad on the other. The carbide tip has edges at the same angle on both ends that allow for convenient "in-office" replacement of worn-out tips. Carbide tip and extra plastic pad are provided to make the exchange. Wide handle.

803-0410

Replacement Carbide Tip 803-0975

Replacement Pads (3) 4.8 mm 803-0048 6.3 mm 803-0063



## Adhesive Removing Plier (short)

Same as 803-0410 except both tips are shorter for easier access to anterior teeth.

803-0210

Replacement Carbide Tip 803-0675

Replacement Pads (3) 4.8 mm 803-0048 6.3 mm 803-0063



## AEZ Debonding & Adhesive Removing Pliers (cont.)

## **Titanium Adhesive Removing Plier**

A titanium version of the popular Model 803-0410. one of the most advanced orthodontic alloys, is beneficial because of its long life span and lighter weight. The carbide tip is specially treated to prevent galvanic corrosion during sterilization. The lightweight design facilitates easy usage over long periods of time.

803-2410

Replacement Tip 803-0976 Replacement Pads (3) 6.3 mm 803-0063



# ETM

## Narrow/Wide Direct Bond Removers

Tips wedge between the edges of the bracket base and tooth surface to remove direct bond brackets safely and comfortably.

Direct Bond Remover Narrow 800-0345 (345) Wide 800-0346 (346)



## Narrow/Wide Direct Bond Removers

Designed to remove direct bond brackets quickly and comfortably. The heat sterilizeable pad rests against the incisal/ occlusal edge of the tooth to provide leverage. The sharp tip fits under the bracket flange. Can also be used to remove remaining adhesive.

## Direct Bond Remover with Pad Narrow 800-0348 (348) Wide 800-0349 (349)

Replacement Pads (4) Original Plier Design with Stem 4.8 mm 800-2076 6.3 mm 800-2077

Replacement Pads (3)New Plier Design without Stem4.8 mm803-00486.3 mm803-0063



## ETM Debonding & Adhesive Removing Pliers (cont.)

## Posterior Band Remover

The pad side rests on the occlusal surface of the molar and places the removing tip in an ideal position to catch the edge of the band. Heat sterilizeable replacement pads are available in 3/16" and 1/4" diameters.

#### 800-0347 (347)

Replacement Pads (4) 4.8 mm 800-2076 6.3 mm 800-2077



## Posterior Band Remover (Long)

Same features as Model 800-0347, but with a longer band removing tip.

#### 800-1347 (347 L)

Replacement Pads (4)4.8 mm800-20766.3 mm800-2077

## Angled Direct Bond Remover

Designed to remove all bonded attachments safely and quickly. Tips wedge between the edges of the attachment base and tooth surface for safe and comfortable removal. May be used vertically or horizontally. Tips are angled for easy access to posterior areas.

800-0344 (344)



## Lingual Debonding Plier

Perfect for removal of lingual brackets and Bite Turbos. This instrument incorporates a state-of-the-art spring mechanism to improve durability and has an increased arm radius to allow for better movement.

800-0431



## Band Slitter

Shear-cuts upper and lower anterior bands with a minimum of patient discomfort. The cutting tips should be on the incisal/gingival edges of the band, toward the interproximal. Care should be taken so the tips do not come in contact with weld flanges or tie-wings.

800-1026 (1026)



# Debonding & Adhesive Removing Pliers (cont.) Appliance-Specific

## Damon Q Debonding/ Repositioning Instrument

866-4008



## **Inspire ICE Debonding Plier**

Constructed of stainless steel and specifically calibrated for Inspire ICE brackets. The handle is ergonomically designed to ensure a steady and comfortable grip. For use only with Inspire ICE brackets.

866-4020



#### Damon Clear Debonding Instrument

Constructed of stainless steel and specifically calibrated for Damon Clear brackets. The handle is ergonomically designed to ensure a steady and comfortable grip. For use only with Damon Clear brackets.

866-4019



## Inspire ICE Debonding Kit



## Appliance-Specific Debonding & Adhesive Removing Pliers (cont.)

#### Damon 3MX Debonding/ Repositioning Instrument

Constructed of stainless steel and with blades specifically calibrated for Damon 3MX brackets. The handle is ergonomically designed to ensure a steady and comfortable grip. For use only with Damon 3MX brackets.

866-4015



## Nexus Debonding/Removing Plier

866-4032



## Nexus Clear Debonding Tool

For use only with Nexus Clear brackets. **866-4033** 



# Opening & Closing Instruments Appliance-Specific

## Damon 3 & 3MX Opening Tool

866-4012

#### Nexus Opening Instrument

866-4030



## SpinTek<sup>™</sup> Opening Instrument

For use only with Damon Q and Damon Clear brackets as well as SnapLink buccal tubes.

866-4014

## Damon Cool Tool

Used to fully seat the archwire in the archwire slot. It also allows for the placement of torque in the archwire (not shown). **866-4003** 

## SpinTek Opening/Closing Instrument

For use only with Damon Q and Damon Clear brackets as well as SnapLink buccal tubes.

## **Crown & Band Removers**

# AEZ

## **Chastant Crown Removing Plier**

Specially designed to provide a better "leverage force" to aid in crown removal following Herbst<sup>®\*</sup> therapy. The steel hooked tip is narrowed and shortened to allow for clearance over the pin on the opposite side of the plier. The pad has been removed to facilitate insertion of the tip into a vent hole in the crown for simplified removal. Ideal for use when trial fitting crowns.

#### 803-0610

\* Herbst is a registered trademark of Dentaurum, Inc.



#### **Crown Slitting Plier**

Designed to facilitate crown removal.

803-0430

Replacement Stainless Steel Tip 803-0431

Replacement Pads (3)4.8 mm803-00486.3 mm803-0063



## Posterior Band Removing Plier

Designed for accessibility to distal areas. **803-0409** 

Replacement Pads (3) 4.8 mm 803-0048 6.3 mm 803-0063



#### Slim Posterior Band Removing Plier

Tips are 1 mm slimmer and 1.5 mm thinner than those on 803-0409.

803-0609

Replacement Pads (3)4.8 mm803-00486.3 mm803-0063



# Separating & Ligature Pliers AEZ ETM

## **Elastic Separating Plier**

Angled beaks facilitate easier placement of elastic separators in confined areas. Barrel-shaped tip prevents slippage of the module, accommodating both anterior and posterior separators. Adjustable screw controls width of opening.

#### 803-0145

## Force Module Separator

Designed for easy placement of elastomeric ligatures and separating elastics. 800-1101 (101)

## Force Module Separator (with adjustable screw)

Features adjustable screw to control width of opening.

800-1011 (101-5)



## Ligature Tying Plier

(Coon style) Channel automatically locks wire ends as tips spread; no wrapping required. 803-0149 (D.F. 9)



## **Tweed Pliers**

# AEZ

## **Tweed Loop Forming Plier**

Loop forming plier that facilitates making Bull and helical closing loops. This plier has one precision cylindrical beak and one concave beak.

803-0121 (D.F. I)



## **Tweed Hollow Chop Plier**

Ideal plier for reshaping archwire, with mated concave and convex jaws. Good radius designed to contour all types of wire.

803-0122 (D.F. 2)



## Tweed Bird Beak Plier

Useful instrument with all the working edges carefully to avoid wire damage. Cone and pyramid beaks are ground to 0.8 mm diameter at the tip. Clearance angles on the side allow for wire spring-back.

803-0124 (D.F. 4)



"Tweed" pliers are all wide-handled and made at the request of and used by members of the Charles H. Tweed Foundation.

## **Tweed Arch Bending Plier**

A light wire arch bending plier that of square and rectangular wire. Blades are 1.27 mm (.050") thick and designed to be parallel at 0.5 mm (.020") plier opening.

803-0125 (D.F. 5)



## Tweed Weingart Utility Plier

General purpose plier with fine serrated tips for holding wires at any working angle.

803-0127 (D.F. 7)



"D.F." stands for "directional force."

# Lingual Pliers AEZ

## Lingual Weingart Plier

Same features as Model 803-0401, Weingart Utility Plier (page 4). Handles are 25 mm longer for use in lingual techniques. 803-0446

# 8

## Lingual Debonding Plier

Specially designed for removal of lingual appliances.

803-0447



# Turret

# AEZ

## Arch-FormingTurret (Standard)

Forms flat arches .016 through .021, edgewise only. Five slots,  $0^{\circ}$  torque.



## Hand Instruments

AEZ

Double-End Ligature Director Ligature Director/ Scaler Orthodontic Band Pusher/Scaler

## Bracket Height Gauges



## Orthos<sup>™\*</sup> Bracket Height Gauges

Upper Arch Quad Tool .018 803-0180

Quad Tool .022 803-0181 Lower Arch Dual Tool .018 803-0182 Dual Tool .022 803-0183

## Wick Bracket Height Gauges

Bracket height-measuring gauge set for accurate measurement at 3.5 mm, 4.0 mm, 4.5 mm, and 5.0 mm from incisal edge bar to bracket locator blade.

.018 Bracket Height Gauge 803-0178

.022 Bracket Height Gauge 803-0179

\*Orthos is distributed in Europe as Ortho-CIS.

# Forceps & Hemostats AEZ/ETM

## Smaha Curved Slimline Sure-Grip Forceps

Excellent for labial and lingual use. Strong enough for inserting archwires and archwire cinch-backs.

800-8014 (8014)



#### Smaha Straight Slimline Forceps (Wide)

Same features as Model 800-8015, except with slightly wider tips.

800-8115 (8015-W)



## Smaha Straight Slimline Sure-Grip Forceps

Same features as Model 800-8014, except with straight tips. Excellent for placing elastomeric ligatures.

#### 800-8015 (8015)



## Straight Mosquito Forceps

Precision serrated tips and positive locking ensure consistent performance.

800-8013 (8013)



## Forceps & Hemostats (cont.)

## Ligature Plier with Notch Tip

(Mathieu style)

Firmly holds elastic without tearing. Stainless steel design. **801-0006** 



## Needle-Nose Hemostat for Power Modules (Straight)

All-stainless-steel instrument, featuring fine serrations on the tips and a three-stop ratchet lock. **801-0037** 



#### Ligature Plier (Mathieu style)

Sturdy, rounded tips designed for twisting ligature wire. **801-0064** 



# Bracket Holders AEZ/ETM

## Bracket Placement Tool

This tweezer-type tool is designed to provide easy and accurate placement of a direct bond bracket. Constructed from highquality stainless steel that may be sterilized by conventional methods.

820-2010



## Curved Direct Bond Bracket Holder

Designed for holding and placing either labial or lingual brackets. Features spring-loaded reverse action to hold brackets until release is desired.

800-8000 (800 S)



## Direct Bond Bracket Holder

Features spring-loaded reverse action to hold brackets until release is desired. Works with all twin and single brackets.

800-1005 (100)

Kit of 6 800-1007 (100 K)

## Direct Bond Bracket Holder

A stainless steel locking bracket holder with serrated tips. Securely holds direct bond brackets, providing easier instrument exchange during bonding procedures.

803-0175



#### **Positive Positioner**

Spring-loaded mechanism provides effortless placement of any direct-bond attachment. Has small head for excellent field of vision anywhere in the mouth. Lightweight anodized aluminum. Not heat sterilizeable.

800-2222 (2222)



## Gauges

# AEZ/ETM

## Anderson Gauge (For band and bracket uses)

For positioning bracket on a band or checking bonded bracket height. Precision carbide scribe point. Four positive ratchet settings: 3.5 mm, 4 mm, 4.5 mm, 5 mm.

850-0000 **Replacement Tip Kit** (5 tips/l wrench) 850-0001



## **Bracket Placement** Marker/Measuring Gauge

Designed to aid direct or indirect Diamond<sup>®</sup> bracket placement. Archwire slot and incisal edge of the bracket pad can be marked. Pencil lead refills are included. 801-0000



## Miscellaneous

#### Elastic Positioner for Power Modules

The elastic positioner elongates the power module to ease ligation of the bracket. 801-0039

#### Cotton Tweezers

Thin tapered stainless steel tips. Can be used to apply etching solution with a cotton pellet or to position a direct bond bracket.

849-0000

## Ligature Director

Red soft-touch handle. Can be heat sterilized. 800-2104

## Cement Scaler

Well-balanced and designed for quick cement removal. Can be used for direct bond bracket positioning.

## Miscellaneous (cont.)

#### Aspel Force Module Instrument

Useful instrument for placing and removing elastic ligatures and for tucking metal ligatures. Yellow soft-touch handle.Can be heat sterilized.

800-2108

#### Lingual Hinge Cap Opening Tool

Designed to be used with hinge cap molar attachments.

802-1001

## Band Seater

Uses new tip design to fit band contour. Four contact points for multicontact seating. Nylon handle provides bite surface.

844-0000



Permanent, durable serrated tip of stainless steel. Well-balanced oval handle.

844-0031



## Mouth Mirror

Number 5 mouth mirror is conveniently angled for easy use. Autoclavable. 800-2106 (2106)m

#### AEZ Heat-Resistant Bite Stick

Designed to hold up to dry heat, autoclave and cold sterilization, this bite stick will withstand temperatures of up to 450°F.

Square Tip844-0006Triangle Tip844-0007

## Band Pusher/ Burnisher

Permanent, durable tip. Made of stainless steel. 844-0011

## Band Seater/ Burnisher with Serrated Tip

Serrated tip for positive control.



## SECTION 12 PAGE 31

## Miscellaneous (cont.)

## **Replacement Pads**

The male-type pad with stem for old style ETM instruments.

4.8	mm	803-0187
6.3	mm	803-0250

#### Cap Removal Tool Kit with Replacement Tip

For convenient conversion of convertible buccal tubes. The tip should be replaced when it becomes worn or deformed from use. Tip replacement can be done in a few seconds. Kit contains one handle and one package of 5 tips.

801-0094 Replacement Handle 801-0095

Replacement Tips (5) 801-0097

## Interproximal Strip Kit

Includes 30 blades – singlesided and double-sided in fine, medium and coarse (5 of each); 4 heat-sterilizeable handles; 15 finishing strips in fine, medium and coarse (5 of each).

#### 800-8102 (8102)

<b>Single-Sided Blade</b>	es (10)
Fine	800-8103
Medium	800-8104
Coarse	800-8105
Double-Sided Blad	es (10)
Fine	800-8106
Medium	800-8107
Coarse	800-8108
Accorted Blades (C	2)
Masoliced Diades (a	• )
(3 fine, 3 medium,	, 3 coarse)
(3 fine, 3 medium, Single-Sided	3 coarse) 800-8109
(3 fine, 3 medium, Single-Sided Double-Sided	3 coarse) 800-8109 800-8110
(3 fine, 3 medium, Single-Sided Double-Sided Finishing Strips 8	3 coarse) 800-8109 800-8110 mm (100)
(3 fine, 3 medium, Single-Sided Double-Sided Finishing Strips 8 Fine	, 3 coarse) 800-8109 800-8110 mm (100) 800-8111
(3 fine, 3 medium, Single-Sided Double-Sided Finishing Strips 8 Fine Medium	7 3 coarse) 800-8109 800-8110 mm (100) 800-8111 800-8112



Nexus Arch Director 866-4031

Damon 3 Instrument Dual Tip 866-4013

Advansync Crimpling Plier

## Care & Repair

## Sterilization

#### Autoclave

- 1. Pre-clean instruments using a high-quality ultrasonic solution that is pH neutral and contains rust inhibitors. The use of distilled water will provide further protection against rust and discoloration.
- 2. Dry joints thoroughly with compressed air and towel dry.
- 3. Place unwrapped instruments flat on tray with jaws open. Avoid instrument-to-instrument contact.
- 4. Operate sterilization cycle at 275°F (132°C) for six minutes. This is the typical cycle parameter for steam autoclave. Refer to the instructions of the brand and model you use.
- 5. Lubricate joints.

#### **Dry Heat**

- 1. Pre-clean instruments using a high-quality ultrasonic solution that is pH neutral and contains rust inhibitors. The use of distilled water will provide further protection against rust and discoloration.
- 2. Dry joints thoroughly with compressed air and towel dry.
- 3. Place instruments flat on racks with jaws open. Avoid instrument-to-instrument contact.
- 4. Operate sterilization cycle at 375°F (190°C) for 20 minutes. This is the typical cycle parameter for dry heat sterilization. Refer to the instructions of the brand and model you use..

#### Warranty & Repair

ETM and AEZ Instruments are warranted to be free of defects in material and workmanship for the lifetime of the instrument. Misuse, abuse or failure to maintain or care for the instrument properly will void warranty claims. Ormco's sole responsibility will be, at its option, to repair or replace or credit the purchase price of the instrument in the event of any claimed defects.

Adherence to recommended cleaning, sterilization and lubrication practices will help ensure optimum product performance. Cutting instruments that are used frequently should be reconditioned every six to nine months. Joints should be lubricated with a medical grade lubricant as needed or after any heat sterilization cycle. Warranty does not cover routine maintenance, sharpening, or reconditioning. Cutting instruments not performing properly on intended wire sizes will be sharpened, free of charge, for the first 90 days after delivery.

Warranty claims or requests for service should be sent directly to Glendora, California (if purchased in the U.S. or Canada), or to your distributor (if purchased elsewhere).

# Section Thirteen



# **Practice Development**

#### **Doctor Education**

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#### Patient Education/Marketing

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- page 5 Digital Orthodontics
- page 6 Aesthetic Appliances
- page7Metal Twin Appliances
- page 7 Intraoral Appliances

## Doctor Education – Books & DVD

## Damon Treatment Protocol Booklet

Suggested Damon System treatment protocols are provided for the following cases: Class I Deep Bite, Class II Open Bite, Mild Class II (Div 2 End-On and Mild Class II Deep Bite), Class III Open Bite and Deep Bite, Four Bicuspid Extraction (Open Bite and Deep Bite) and Posterior Cross Bite. *18 pages*, *2010*.

#### 070-5571



## VectorTAS Workbook

Providing a detailed overview of the VectorTAS System, this workbook illustrates placement and treatment techniques for 9 cases - gummy smile correction, bi-maxillary dental protraction with TADs and aligners, space closure by anterior retraction or molar protraction, closure of anterior open bite, maxillary occlusal cant, molar intrusion, canine

impaction/ankylosis and molar up-righting. Marketing tips, including a patient consultation script and sample referring dentist letter, are included to support practice growth. 56 pages, 2011. **700-0149** 



#### Damon System Case Studies, Volume One

Drs. Stuart Frost, Mike Mayhew and Ramon Perera

Detailed case studies are provided for the following Damon System cases: Class I Bi-maxillary Protrusion, Class I Endto-End Molar, Class I Narrow Arch, Class II Deep Bite, Class II Cleft Lip & Palate and Class I and Class III Anterior Crossbite. Each case includes a pretreatment diagnosis, treatment plan, step-by-step treatment sequence, case discussion and wire sequence chart. *61 pages*, 2011.

070-5596

## VectorTAS Demonstration DVD

This DVD demonstrates how VectorTAS can be used in even the simplest of cases to reduce treatment time and enhance smile aesthetics. Placement procedures, doctor testimonials and patient testimonials are included. *2009*.



## **Doctor Education – Books**



#### Modern Edgewise Mechanics & The Segmented Arch Technique

by Charles J. Burstone, DDS, MS, with Edsard van Steenbergen, DDS, MDS, and Kevin J. Hanley, DDS

Applicable to all techniques, this entire book presents a practical application of optimal force delivery for both extraction and nonextraction treatment. A step-by-step description shows the details of appliance fabrication, indications and contraindications, and how to individualize activations. The biomechanics of orthodontics is discussed concisely and is integrated into the technique presentation.

To quote Dr. Larry White, "Orthodontists could hardly find a better reference for understanding Burstone's philosophy and mechanical approach to orthodontics. In short, a bargain of a book." 139 pages, over 50 illustrations, black & white, softcover.

#### 700-0127



#### Modern Day Dragon Slaying: The Essence of Practical Orthodontics

by James J. Hilgers, DDS, MS

A unique approach to orthodontic communication, this "fluid" textbook consolidates the management, techniques and principles that compose Dr. Hilgers' current treatment philosophy. This compilation of articles and discourse focuses on practical solutions to everyday orthodontic problems, with an emphasis on noncompliance therapy. Due to the printing and binding process used, this soft-sided textbook can be updated yearly to accommodate the changing orthodontic landscape. 395 pages, over 600 illustrations, black & white, binder format.

#### 700-0131



#### Orthodontics for the Next Millennium

by Rohit C. Sachdeva, BDS, MDentSc

This edition covers the latest scientific and technological advances related to orthodontics, as well as a number of recent clinical developments. To quote Dr. Larry White, "Fifty-three authors have collaborated to address 35 subjects, and the result is the richest and most varied cornucopia of orthodontic knowledge yet assembled in one book. Subjects as esoteric as fetal surgery to cleft palates to the most fundamental orthodontic features such as the control of the vertical dimension are addressed in this remarkable book..." 620 pages, over 400 illustrations, black & white, hardcover.

## Patient Education/Marketing

## Self-Ligation Systems

#### **Damon System - Passive Self-Ligation**

Consultation Typodonts & Models	
Damon Q Consultation Typodont	717-0114
Damon Q Consultation Model (with stand, opening tool, wire bar & elastomeric)	717-0124
Damon Clear Consultation Typodont	717-0115
Damon Clear 14x Consultation Model (with stand, opening tool, wire bar & elastomeric)	717-0125
Combo Consultation Typodont (Damon 3 upper/Damon 3MX lower)	717-1035
Damon 3MX Consultation Typodont	717-1033
Damon 3MX 15x Consultation Model (with stand, opening tool, wire bar & elastomeric)	717-1034
Damon 3 Consultation Typodont	717-1032
Damon 3 15x Consultation Model (with stand, opening tool, wire bar & elastomeric)	717-1031
Patient Brochures & Displays	
Damon System Patient Brochure (40 per pack) – English	070-5117
Damon System Patient Brochure (40 per pack) – Spanish	070-5458
Damon System POP Display (brochure holder) – English	070-5469
Damon System POP Display (brochure holder) – Spanish	070-5606
Damon Clear Patient Brochure (40 per pack) – English	070-5585
Damon Clear Patient Brochure (40 per pack) – Spanish	070-5620
Damon Clear POP Display (brochura bolder) English	
Dalmon Clear FOF Display (Drochure Holder) – English	070-5586
Damon Clear POP Display (brochure holder) – English	070-5586 070-5621
Damon Clear POP Display (brochure holder) – English Damon Clear POP Display (brochure holder) – Spanish Referring Dentist Education	070-5586 070-5621
Damon Clear POP Display (brochure holder) – English Referring Dentist Education Damon Referring Dentist Lecture Kit (Binder and CD)	070-5586 070-5621 740-0058
Damon Clear POP Display (brochure holder) – English         Damon Clear POP Display (brochure holder) – Spanish         Referring Dentist Education         Damon Referring Dentist Lecture Kit (Binder and CD)         Damon Referring Dental Hygienist CD	070-5586 070-5621 740-0058 070-5380
Damon Clear POP Display (brochure holder) – English         Damon Clear POP Display (brochure holder) – Spanish         Referring Dentist Education         Damon Referring Dentist Lecture Kit (Binder and CD)         Damon Referring Dental Hygienist CD         Presentations & Artwork	070-5586 070-5621 740-0058 070-5380
Damon Clear POP Display (brochure holder) – English         Damon Clear POP Display (brochure holder) – Spanish         Referring Dentist Education         Damon Referring Dentist Lecture Kit (Binder and CD)         Damon Referring Dental Hygienist CD         Presentations & Artwork         Damon Orthodontic Photo Album (spiral-bound)	070-5586 070-5621 740-0058 070-5380 070-5461

Contact your Ormco representative for access to an online library of Damon artwork. The Damon brand name and artwork is only authorized for use by doctors/practices offering the Damon System.

**Consumer/Patient Website with Doctor Locator\*** 

 $\mathsf{Damonbraces.com}-\mathsf{Contact}$  your  $\mathsf{Ormco}$  representative to add your practice website to the doctor locator

\*Available in North America, United Kingdom and Netherlands.





**Damon Clear POP Display** 

Damon System POP Display



## Patient Education/Marketing

## Self-Ligation Systems (cont.)

#### **Nexus System - Active Self-Ligation**

Consultation Typodonts	
Nexus Metal Typodont	717-1059
Nexus Clear Typodont	717-1060
Artwork	

Contact your Ormco representative for access to an online library of Nexus artwork. The Nexus brand name and artwork is only authorized for use by doctors/practices offering Nexus.

\*\* Available by Fall 2011



**i** deserve



**Nexus Clear Typodont** 

## **Digital Orthodontics**

#### **Insignia Advanced Smile Design**

Consultation Typodont	
Insignia Typodont	717-0010
Patient Brochures & Displays	
Insignia Patient Brochures (40 per pack)	070-5573
Insignia POP Display (brochure holder)	070-5574
Office Posters (19" x 25")	
Insignia Poster, Woman	070-5575
Insignia Poster, Couple	070-5578



Contact your Ormco representative for access to an online library of Insignia artwork. The Insignia brand name and artwork is only authorized for use by doctors/practices offering Insignia.

#### Consumer/Patient Website with Doctor Locator\*

Insigniasmile.com – Contact your Ormco representative to add your practice website to the doctor locator

\*Available in North America

Artwork





**Insignia Patient Brochures** 

**Insignia POP Display** 

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## Patient Education/Marketing

## Aesthetic Appliances

Also refer to the "Self-Ligation Systems" section for Damon Clear and Nexus Clear.

#### Inspire ICE

Consultation Typodont	
Inspire ICE Typodont	717-1026
Patient Brochures & Displays	
Inspire ICE Patient Brochures (40 per pack) – English	740-0267
Inspire ICE Patient Brochures (40 per pack) – Spanish	070-5457
Inspire ICE POP Display (brochure holder) – English	070-5464
Inspire ICE POP Display (brochure holder) – Spanish	070-5465
Artwork	
Inspire ICE Marketing CD	070-5449
Consumer/Patient Website with Doctor Locator*	
Iceclearbraces.com – Contact your Ormco representative to add	d your

lceclearbraces.com – Contact your Ormco representative to add you practice website to the doctor locator

\*Available in North America

#### SpiritMB

Typodont and Patient Brochures	
SpiritMB Typodont	709-0057
SpiritMB Patient Brochures (40 per pack) – English	740-0215

#### **STb Lingual**

Consultation Typodont	
STb Lingual Typodont	717-1040
Patient Brochures & Displays	
STb Social 6 Patient Brochures (40 per pack) – English	070-5493
STb Social 6 Patient Brochures (40 per pack) – Spanish	070-5494
STb Social 6 POP Display (brochure holder) – English	070-5495
STb Social 6 POP Display (brochure holder) – Spanish	070-5496
Presentation	
STb Demonstration DVD**	070-5555

\*\*Available by Fall 2011

Lingual Gen 7

**Typodont** Lingual Gen 7 Typodont

709-0051





**STb Social 6 POP Display with Patient Brochures** 

## Patient Education/Marketing

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Titanium Orthos Typodont	709-0070
Orthos Typodont	709-0058
Alexander Signature Line Typodont	709-0065
Attract Typodont	717-1004
Mini Diamond Typodont	709-0071
Mini-Twin VS Typodont	717-1008
Straight-Wire Synthesis Typodont	709-0069
Twin Typodont	717-1013
Patient Brochures & Displays	
Twin Appliances Patient Brochures (40 per pack) – English	070-5523
Twin Appliances Patient Brochures (40 per pack) – Spanish	070-5524
Twin Appliances POP Display (brochure holder) – English	070-5525
Twin Appliances POP Display (brochure holder) – Spanish	070-5526



**Twin Appliances POP Display with Patient Brochures** 

## **Intraoral Appliances**

#### **VectorTAS Temporary Anchorage**

Typodont and Demonstration DVD	
VectorTAS Typodont	717-1054
VectorTAS Demonstration DVD	070-5546

## Other

Plain Typodont



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Alexander Signature Line
Mini-Wick System
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