

Andrews²[™]
Appliance

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Appliance
orthodontic science realized.

THE ANDREWS² STRAIGHT-WIRE APPLIANCE

Scientific • Effective • Efficient

The *Andrews²* Straight-Wire Appliance Concept involves building tooth guidance into brackets rather than into the archwires. It is based on recognition of the extensive similarities in tooth morphology between individuals with normal teeth, and in the tooth positions of individuals with naturally optimal dentitions. The *Andrews²* Appliance exploits these similarities and utilizes special design features to facilitate tooth guidance, and to enhance ease-of-use.

The *Andrews²* Appliance is comprised of both Standard and Translation brackets. Selecting the most suitable *Andrews²* Bracket begins with measuring arch discrepancy to determine whether or not to extract and how far each tooth needs to be moved. Teeth that need to be translated mesially or distally are assigned Translation Brackets – minimum, medium, or maximum depending on the distance the teeth are to be translated. Teeth that do not require translation are assigned Standard Brackets.

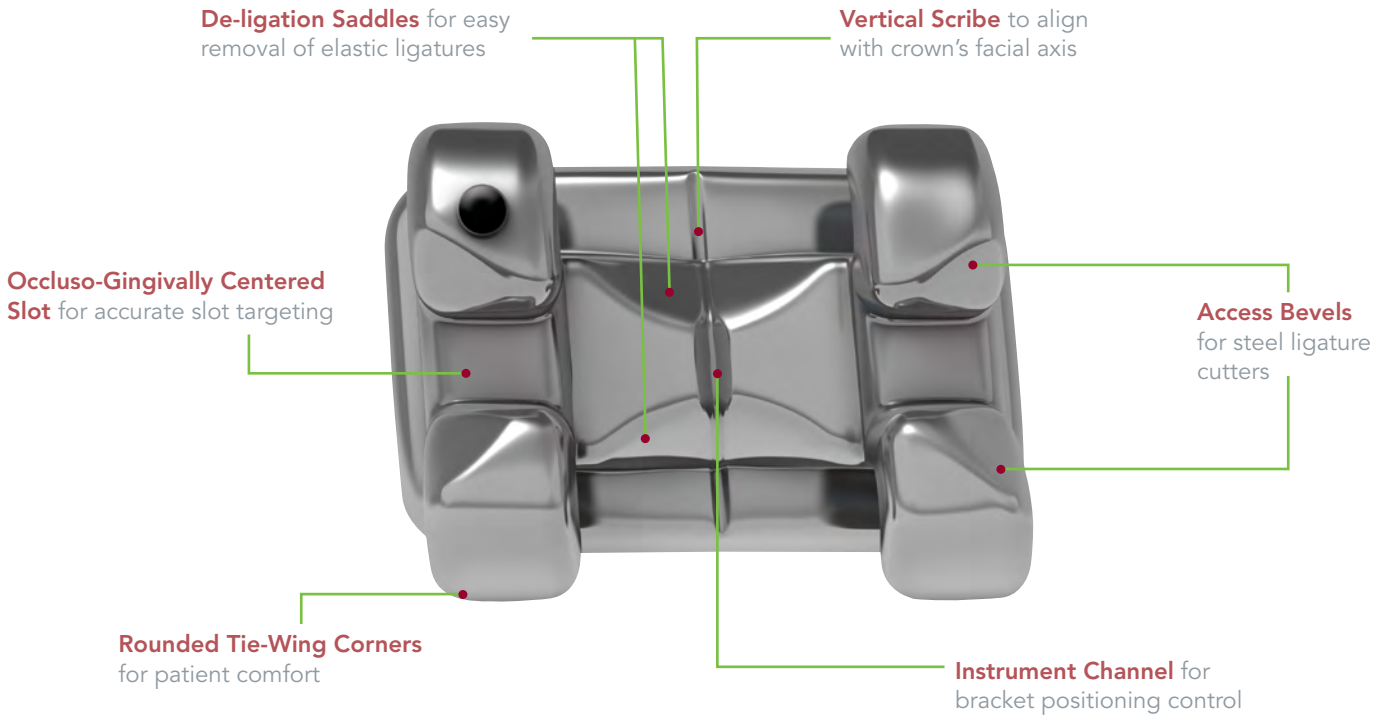


The *Andrews²* Brackets can be prescribed individually or by pre-arranged set. There are 12 sets for the maxillary arch and 11 for the mandibular arch. Arch correction efficiency is maximized when the most appropriate brackets are prescribed, properly sited, and then the most suitable archwires and forces are applied. Categorically, such an appliance is a **fully-programmed** appliance.

Finally, good occlusion is dependent on an optimal arch. Properly prescribed and sited *Andrews²* Brackets will get you where you want to go as fast as is biologically possible, with the least amount of effort.

ORTHODONTIC SCIENCE REALIZED

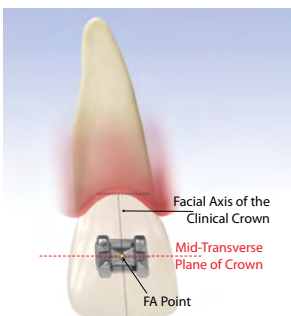
Building upon the Straight-Wire Appliance, the Andrews Foundation has developed a modern appliance system which has been through 20 years of research and development. *Ortho Organizers*® is the proud, exclusive manufacturer and distributor of the *Andrews² Appliance*. The Company has worked closely with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



BRACKET SITING

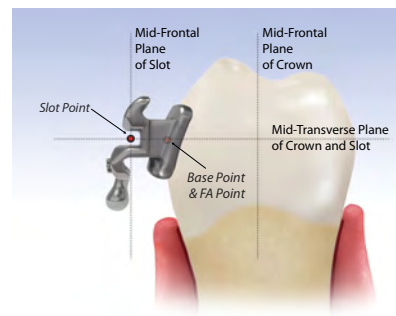
Frontal Perspective:

The vertical midline scribe of the bracket is to be superimposed over the facial axis of the crown. The tie wings are to be parallel and straddling the facial axis of the crown. The bracket is to be centered occluso-lingually on the facial axis of the clinical crown at the FA point.



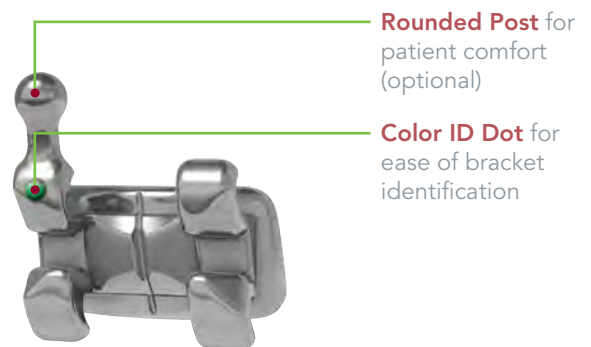
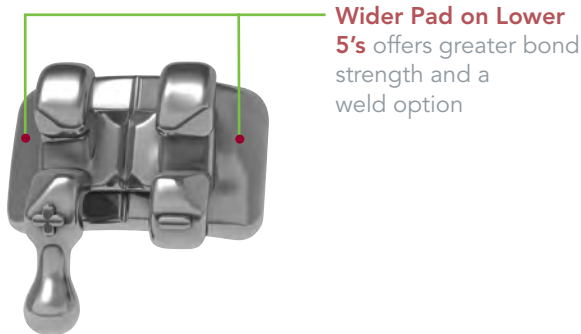
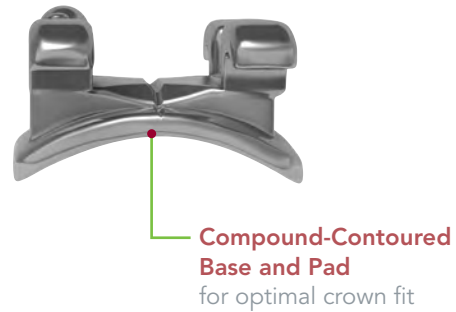
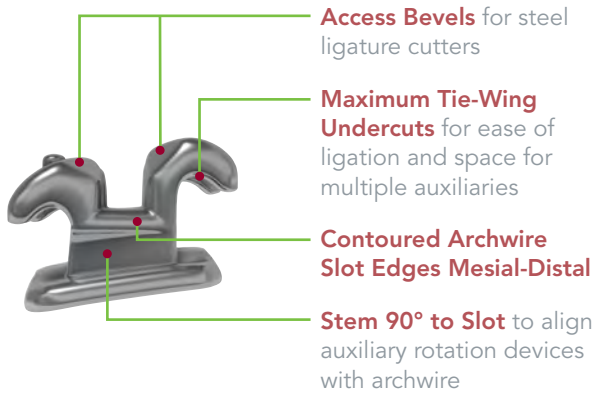
Lateral Perspective:

The mid-transverse planes of the crown and slot are superimposed when the bracket is sited on the FA point.



QUALITY AND PRECISION

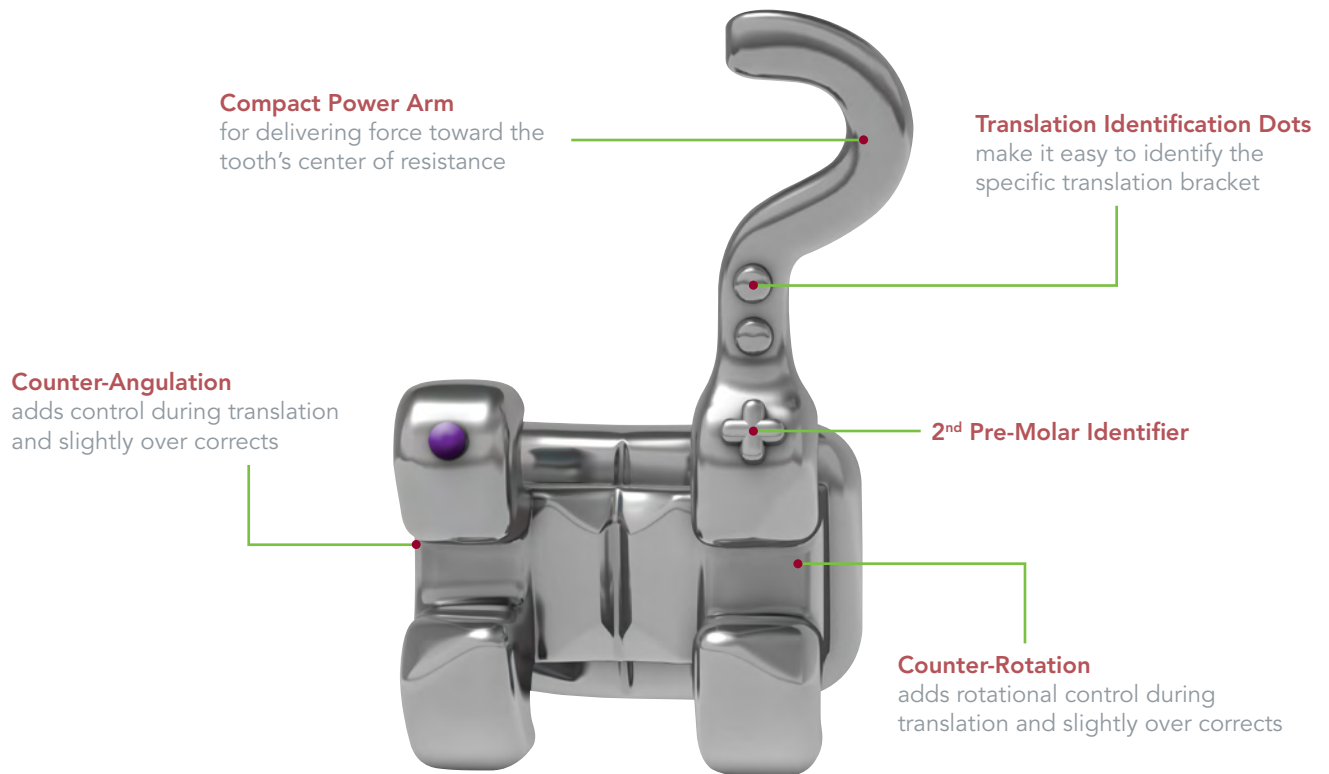
The Andrews² Appliance is manufactured at *Ortho Organizers* headquarters in Carlsbad, CA ensuring exact precision. Experts conduct quality assurance inspections, and the latest technologies are used throughout the manufacturing process. The appliance is made through the Metal Injection Molding (MIM) process, which is an advanced technology used for the manufacturing of complex metal products. MIM translates into rounded contours, and other complex structures that machined and cast brackets may not be able to duplicate.



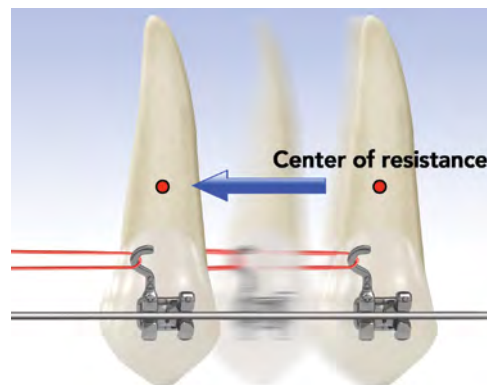
TRANSLATION BRACKETS

When teeth require mesial or distal bodily movement, translation brackets have significant advantages over standard brackets.

Translation brackets encompass all the qualities of standard brackets, plus offer a compact power arm and multiple prescriptions that incorporate counter-angulation and counter-rotation. Collectively, the width of the brackets, length of the power arms, and prescription produce the ability to direct forces close to or at the tooth's center-of-resistance. This allows for efficient bodily movement and over-correction while using sliding mechanics.



Andrews² Translation brackets help to deliver forces to the tooth's center-of-resistance.



ANDREWS²

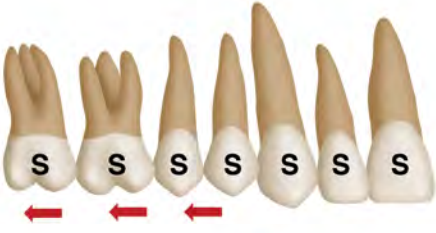
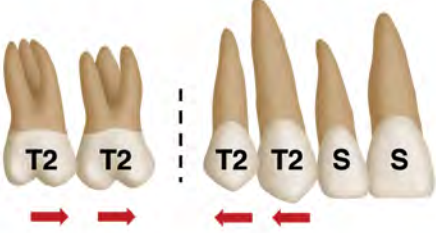
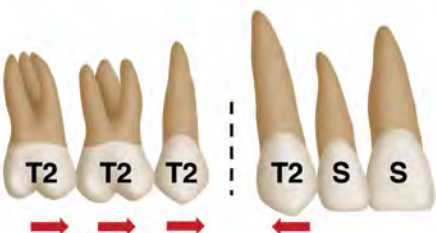




STRAIGHT-WIRE APPLIANCE SYSTEM

The Andrews² Straight-Wire Appliance System is composed of prearranged sets of brackets correlated with commonly diagnosed arch discrepancies. There are 12 maxillary and 11 mandibular sets. The bracket sets are combinations of 5 different types of brackets:







- S – Standard Bracket
- T1 – Minimum Translation Bracket
- T2 – Medium Translation Bracket
- T3 – Maximum Translation Bracket
- T4 – Maxillary Molar 7 mm Overjet Bracket

The bracket sets found on this page and the following page are for both upper and lower arches, except where noted.

ARCH DISCREPANCY CATEGORY	INVENTORY PERCENT	ARCH DISCREPANCY	QUADRANT	TREATMENT PLAN
SPACED	2%	(+)9-14 mm		Translate posterior teeth mesially 4.5 to 7 mm per quadrant. (Rx #1)
	3%	(+)5-8 mm		Translate posterior teeth mesially 2.5 to 4 mm per quadrant. (Rx #2)
	5%	(+)1-4 mm		Translate posterior teeth mesially 0.5 to 2 mm per quadrant. (Rx #3)
CLASSIC	2%	0 mm (Ext.)		Non-extraction condition with premolar extractions. Translate posterior teeth mesially 4.5 to 7 mm per quadrant. (Rx #4)
	30%	0 mm		No mesial or distal translation needed. (Rx #5)

ARCH DISCREPANCY CATEGORY	INVENTORY PERCENT	ARCH DISCREPANCY	QUADRANT	TREATMENT PLAN
CROWDED	30%	(-) 1-5 mm		Move posterior teeth distally 0.5 to 2.5 mm per quadrant. (Rx #5)
	7%	(-) 6 mm		Extract 2 nd premolars and close space reciprocally. (Rx #6)
	5%	(-) 7-8 mm		Extract 1 st premolars and close space reciprocally. (Rx #7)
	5%	(-) 9-10 mm		Extract 1 st premolars. Translate canines distally 4.5 to 5 mm per quadrant. Translate posterior teeth mesially 2 to 2.5 mm per quadrant. (Rx #8)
	4%	(-) 11-13 mm		Extract 1 st premolars. Translate canines distally 5.5 to 6 mm per quadrant. Translate posterior teeth mesially 1 to 1.5 mm per quadrant. (Rx #9)
	4%	(-) 14 mm		Extract 1 st premolars. Translate canines distally 7 mm per quadrant. (Rx #10)
	3%	(-) 14 mm (Upper Ext. Only)		Extract upper 1 st premolars only. Translate canines distally up to 7 mm per quadrant. Maxillary molars finish 7 mm mesial to Key 1. (Rx #11)

ANDREWS² PRESCRIPTION MAXILLARY

Maxillary					Item Numbers		Note
Tooth	Inclination	Angulation	Counter Rotation	0.022			
				L	R		
Central 	+7°	+4°	0	712-800	712-801	Standard	
Lateral 	+4°	+8°	0	712-802	712-803	Standard	
Cuspid 	-7°	+8°	0	712-804	712-805	Standard	
Cuspid Hk 	-7°	+8°	0	712-804HK	712-805HK	Standard	
Cuspid PA 	-7°	+10°	2M	712-804T2	712-805T2	T2	
1st Bicuspid 	-7°	+2°	0	712-806	712-807	Standard	
1st Bicuspid Hk 	-7°	+2°	0	712-806HK	712-807HK	Standard	
1st Bicuspid PA 	-7°	+4°	2M	712-806T2	712-807T2	T2	
2nd Bicuspid 	-7°	+2°	0	712-808	712-809	Standard	
2nd Bicuspid Hk 	-7°	+2°	0	712-808HK	712-809HK	Standard	
2nd Bicuspid PA 	-7°	0°	2D	712-808T2	712-809T2	T2	

Bracket images are not representative of actual size, or ratio to other brackets.

ANDREWS² PRESCRIPTION MANDIBULAR

Mandibular				Item Numbers		Note
				0.022		
Tooth	Inclination	Angulation	Counter Rotation	L	R	
Anterior 1/2 	-6°	+1.5°	0	712-810	712-811	Standard
Cuspid 	-11°	+3°	0	712-812	712-813	Standard
Cuspid Hk 	-11°	+3°	0	712-812HK	712-813HK	Standard
Cuspid PA 	-11°	+5°	2M	712-812T2	712-813T2	T2
1st Bicuspid 	-17°	+2°	0	712-814	712-815	Standard
1st Bicuspid Hk 	-17°	+2°	0	712-814HK	712-815HK	Standard
1st Bicuspid PA 	-17°	+4°	2M	712-814T2	712-815T2	T2
2nd Bicuspid 	-22°	+2°	0	712-816	712-817	Standard
2nd Bicuspid Hk 	-22°	+2°	0	712-816HK	712-817HK	Standard
2nd Bicuspid PA 	-22°	0°	2D	712-816T2	712-817T2	T2

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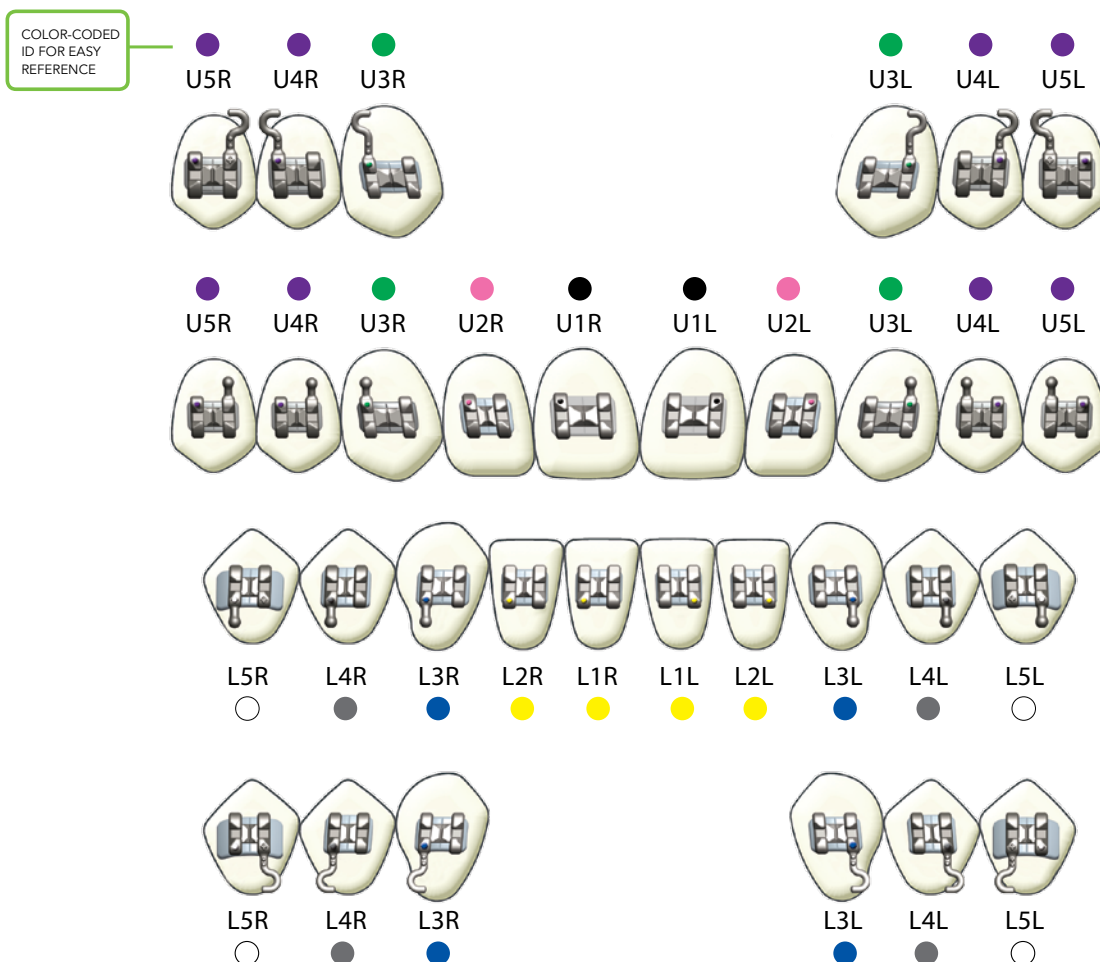
ANDREWS² PRESCRIPTION

SINGLE PATIENT KITS/INTRODUCTORY KIT

	Item Numbers
	0.022
Single Patient Kits/Introductory Kit	Carousel
U/L 5X5 Rx #2 Spaced 5-8 mm	712-902
U/L 5X5 Rx #5 Standard	712-905
U/L 5X5 Rx #6 Extraction 5-6 mm 2nd Pre-Molars	712-906
U/L 5X5 Rx #7 Extraction 7-8 mm	712-907
Q-Packs (single-case, sliding tray)	
U/L 5X5 Rx #2 Spaced 5-8 mm	712-902Q
U/L 5X5 Rx #5 Standard	712-905Q
U/L 5X5 Rx #6 Extraction 5-6 mm 2nd Pre-Molars	712-906Q
U/L 5X5 Rx #7 Extraction 7-8 mm	712-907Q

Intro Kits	Item Numbers
U/L 5X5 30 Case Introductory Kit Hks (3's)	712-900
U/L 5X5 30 Case Introductory Kit Hks (3's, 4's, 5's)	712-900HK
Books	
"Straight Wire, The Concept and Appliance"	712-BOOK1
Typodonts	
Andrews ² Typodont "Standard"	631-712S
Andrews ² Typodont "Translation"	631-712T
15X Model	
Andrews ² 15X Model	631-712X

ANDREWS² BRACKET IDENTIFICATION CHART



ABOUT DRs. LARRY AND WILL ANDREWS

Dr. Larry Andrews is the inventor of the Straight-Wire Appliance System, discoverer of the *Six Keys to Normal (Optimal) Occlusion™*, and the *Six Elements of Orofacial Harmony™*. In 1989, he authored the textbook *Straight Wire, The Concept and Appliance*. He is a clinical professor at the University of California at San Francisco, an adjunct professor at West Virginia University, and a visiting professor at Bauru Dental School, University of Sao Paulo, Brazil. Dr. Andrews completed orthodontic training at Ohio State University in 1958. He has lectured worldwide about the *Six Elements Orthodontic Philosophy*, and maintains a private practice limited to orthodontics and orofacial harmony in San Diego, CA.

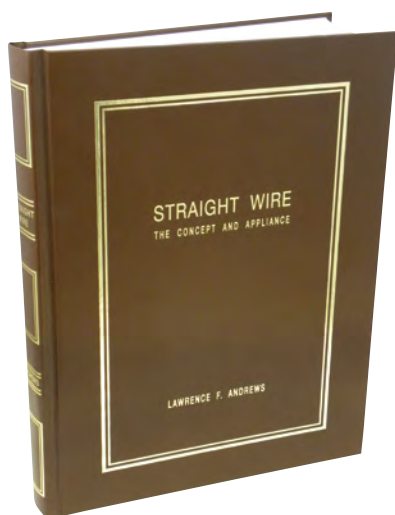


Lawrence F. Andrews, D.D.S.

Dr. Will Andrews completed orthodontic training at the University of California at San Francisco (UCSF) in 1992. He is a Diplomate of the American Board of Orthodontics, a member of the Edward H. Angle Society of Orthodontists, an assistant clinical professor at UCSF, and an adjunct assistant professor at West Virginia University. Dr. Andrews has lectured worldwide, published articles about the *Six Elements Orthodontic Philosophy*, and maintains a private practice limited to orthodontics in San Diego, CA.



Will A. Andrews, D.D.S.



STRAIGHT WIRE THE CONCEPT AND APPLIANCE

The author, Lawrence F. Andrews, D.D.S., discovered the *Six Keys to Normal (Optimal) Occlusion*, and invented the Straight-Wire Appliance System. *Straight Wire, the Concept and Appliance* is the quintessential book about the world's most popular orthodontic appliance concept.

Andrews Foundation

For information on courses about the Andrews² Appliance, contact the Andrews Foundation:

In the U.S. 800.799.8952 | Outside the U.S. +(1) 619 224 0866

Website: AndrewsFoundation.org

Andrews²
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orthodontic science realized.

For more information on *Ortho Organizers'* products and education offerings, please contact us:

In the U.S. 888.851.0533 | Outside the U.S. +(1) 760 448 8600 | Canada: CERUM 800.661.9567

To fax an order: 800.888.7244 | To email an order: USASales@OrthoOrganizers.com



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