

Andrews²
Appliance

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Appliance
orthodontic science realized.

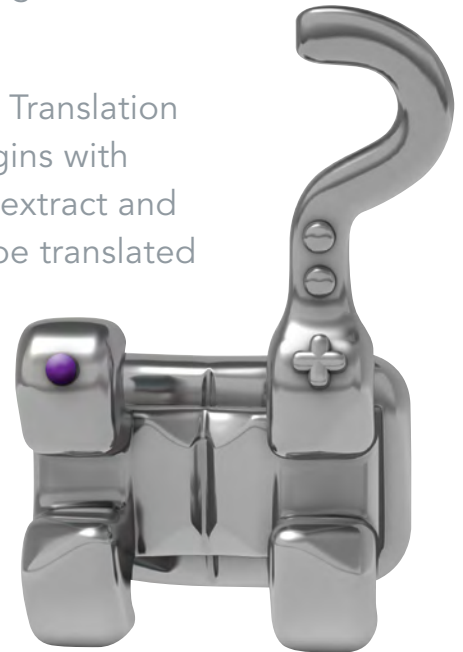
THE ANDREWS² STRAIGHT-WIRE APPLIANCE

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.

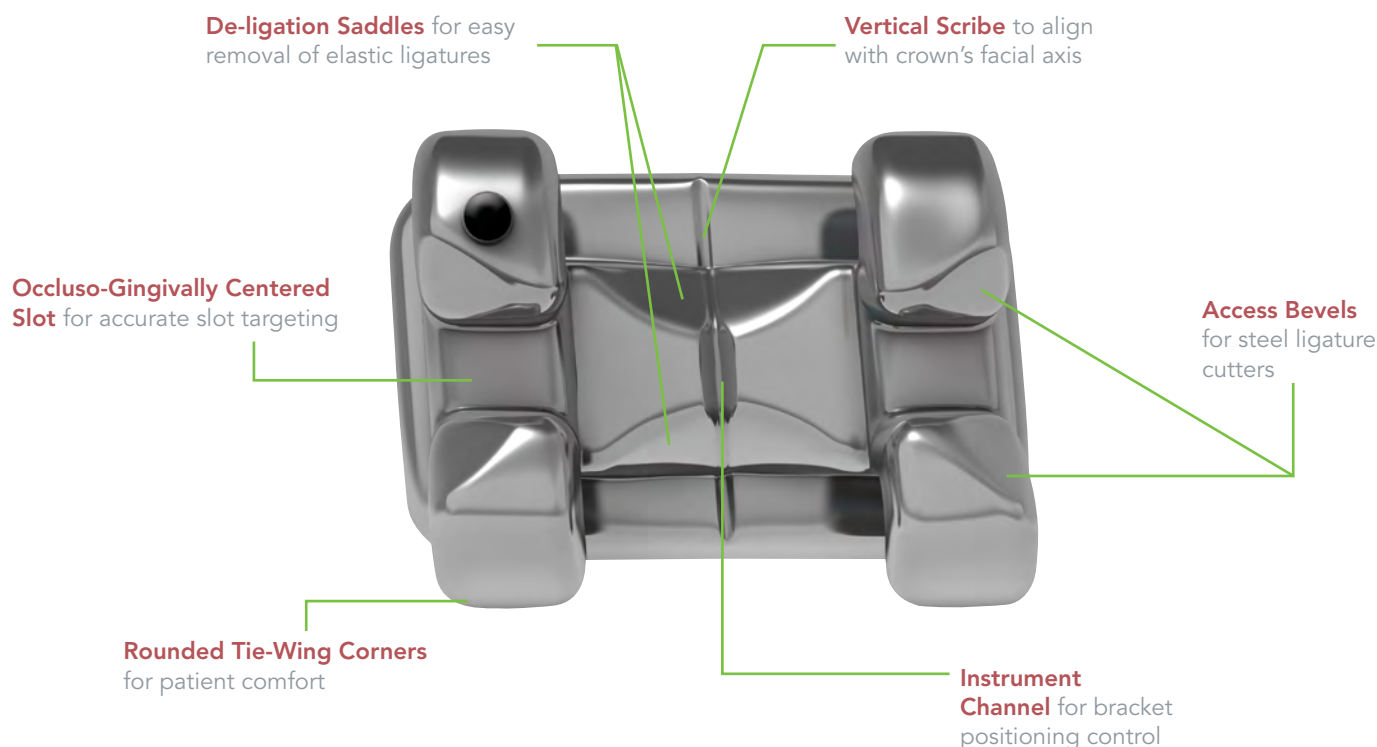
The Andrews² Appliance is comprised of both Standard and Translation brackets. Selecting the most suitable Andrews² Brackets begins with measuring arch discrepancy to determine whether or not to extract and how far each tooth needs to be moved. Teeth that need to be translated mesially or distally are 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.



HISTORY REVISITED. 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 *Andrews*² 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.

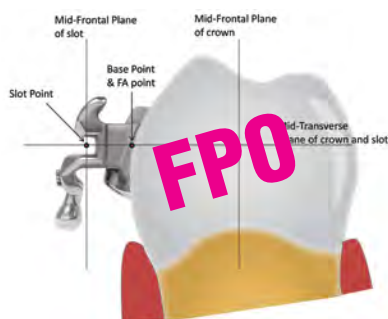


BRACKET SITING

Siting the brackets of the *Andrews*² appliance is designed for use with unbent archwires and is critical for accurate bracket placement. Reliable bracket siting depends on a suitable bracket site, dependable landmarks for locating the site, features for locating the brackets on that site, and a reliable technique.

Distal perspective of a crown and a bracket:

The bracket's vertical landmarks should parallel and straddle the crown's vertical landmark. The bracket's horizontal landmarks should be equidistant from the crown's horizontal landmarks. This will place the bracket's base point on the crown's FA point.

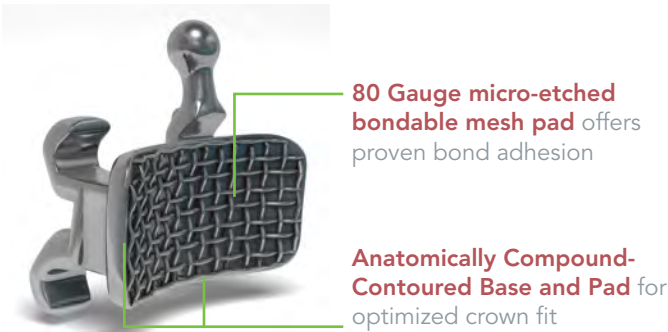
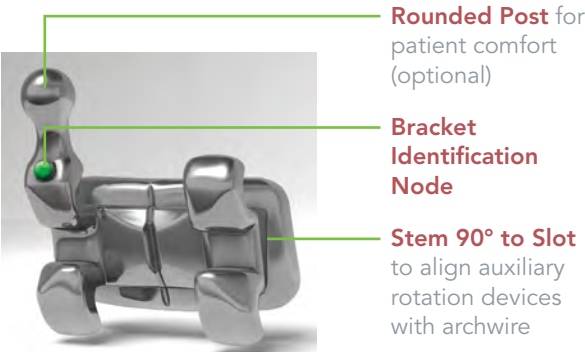
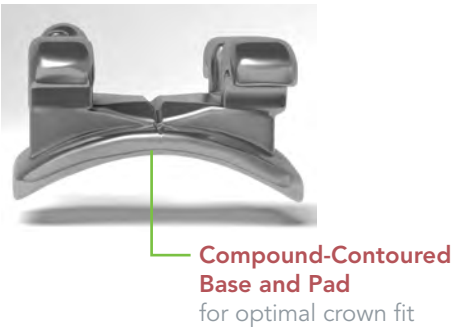


Landmarks and Referents:

The center of the slot site, the slot target point, is located where the crown's prominence plane meets facial extensions of the crown's midsagittal and midtransverse planes.



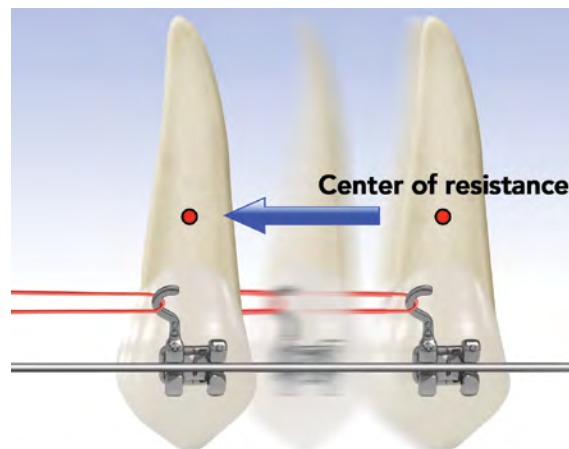
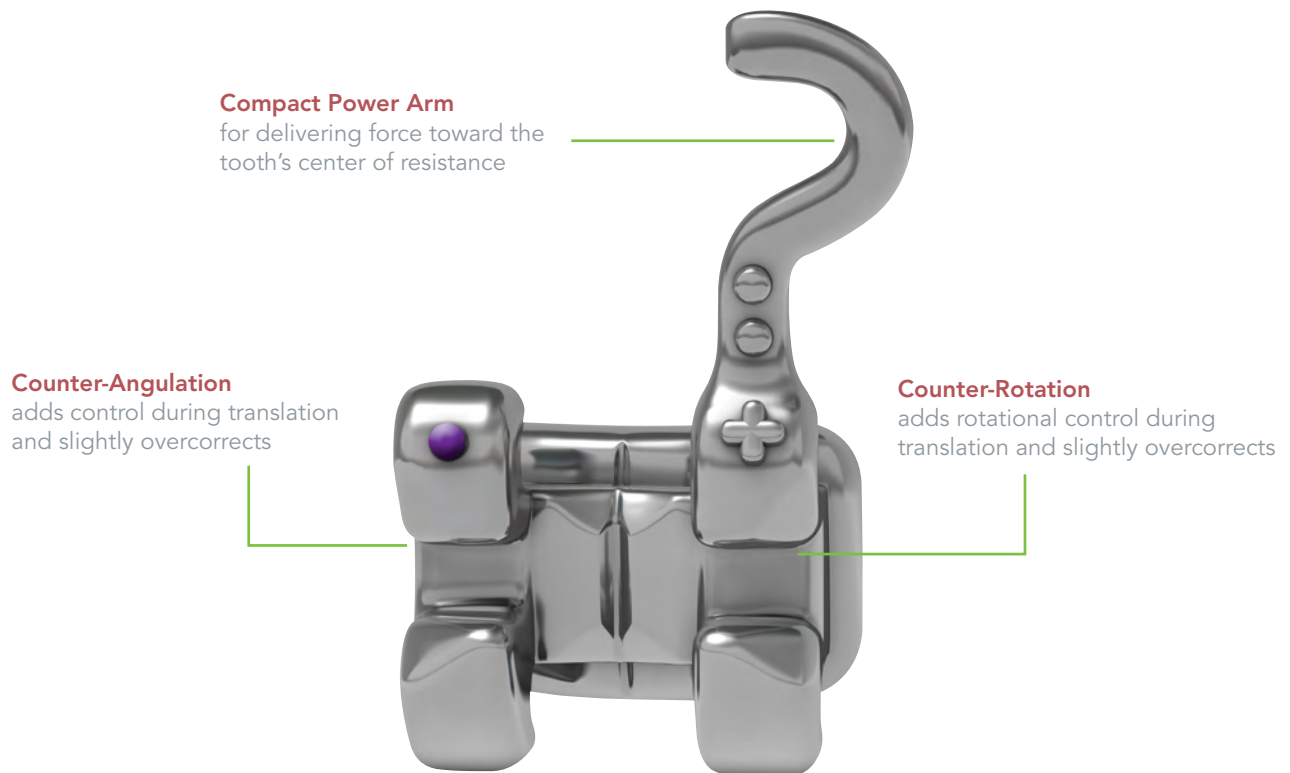
The Andrews² Appliance will be manufactured at *Ortho Organizers* headquarters in Carlsbad, CA ensuring exact precision, experts conduct quality assurance inspections, and the latest technologies are used throughout the manufacturing process to completed product. The appliance will also be made through the Metal Injection Molding (MIM) process, which is an advanced technology used for the use of manufacturing complex metal products. MIM translates into rounded contours, and complex structures that machined brackets cannot duplicate providing corrosion resistance, strength, and proven performance.



TRANSLATION BRACKETS

A fully programmed appliance is one that offers both standard and 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

STRAIGHT-WIRE APPLIANCE SYSTEM

The Andrews² Straight-Wire Appliance System is composed of prearranged sets of brackets correlated to common diagnostic conditions. There are 12 maxillary and 11 mandibular sets. The bracket sets are combinations of 5 different types of brackets:

S – Standard Bracket


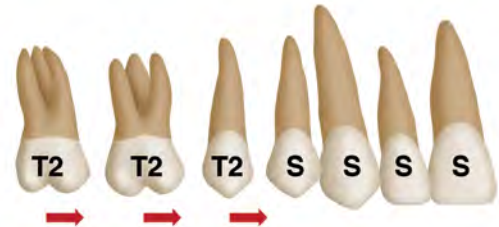
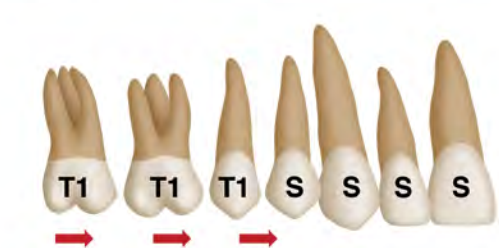
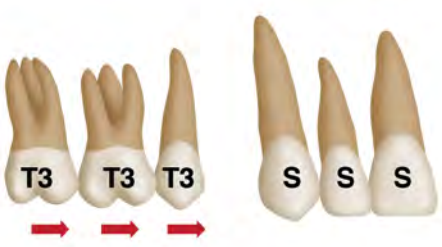

T1 – Minimum Translation Bracket

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 arch treatments, except where noted.

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

ICD CATEGORY

%

ICD

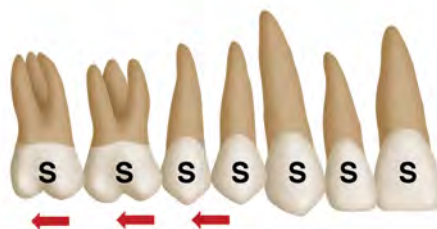
QUADRANT

TREATMENT PLAN

CROWDED

30%

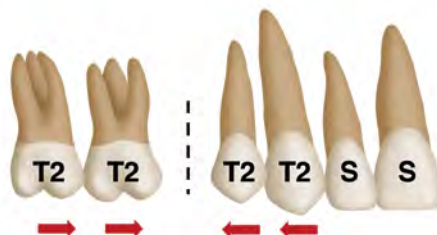
(-) 1-5 mm



Move posterior teeth distally 0.5 to 2.5 mm per quadrant.

7%

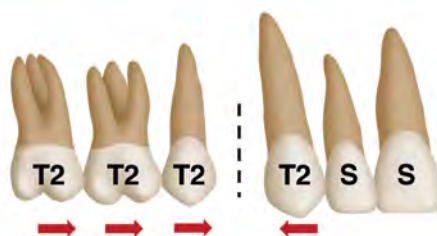
(-) 6 mm



Extract 2nd premolars and close space reciprocally.

5%

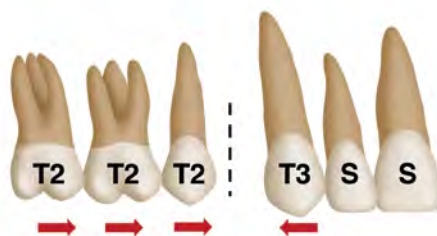
(-) 7-8 mm



Extract 1st premolars and close space reciprocally

5%

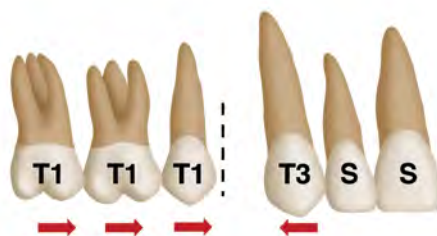
(-) 9-10 mm



Extract 1st premolars. Translate canines 4.5 to 5 mm per quadrant. Translate posterior teeth 2 to 2.5 mm per quadrant.

4%

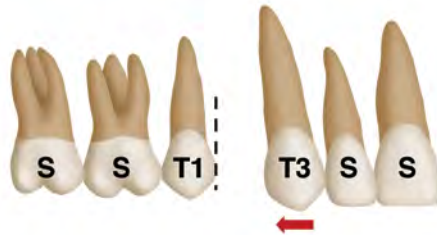
(-) 11-13 mm



Extract 1st premolars. Translate canines 5.5 to 6 mm per quadrant. Translate posterior teeth 1 to 1.5 mm per quadrant.

4%

(-) 14 mm



Extract 1st premolars. Translate canines 7 mm per quadrant.

3%

(-) 14 mm
(Upper Ext. Only)

Extract upper 1st premolars only. Translate canines distally up to 7 mm per quadrant. Maxillary molars finish 7 mm mesial to Key 1.

Andrews Prescription

Maxillary

Maxillary							Item Numbers		Note
Tooth	Inclination	Angulation	Counter Rotation		IN/OUT		0.022		
					In.	mm	L	R	
Central 	+7°	+4°	0		.035	0.89	712-800	712-801	Standard
Lateral 	+4°	+8°	0		.042	1.07	712-802	712-803	Standard
Cuspid 	-7°	+8°	0		.019	0.48	712-804	712-805	Standard
Cuspid Hk 	-7°	+8°	0		.019	0.48	712-804HK	712-805HK	Standard
Cuspid PA*	-7°	+9°	1M		.019	0.48	712-804T1	712-805T1	T1
Cuspid PA 	-7°	+10°	2M		.019	0.48	712-804T2	712-805T2	T2
Cuspid PA*	-7°	+11°	3M		.019	0.48	712-804T3	712-805T3	T3
1st Bicuspid 	-7°	+2°	0		.016	0.41	712-806	712-807	Standard
1st Bicuspid Hk 	-7°	+2°	0		.016	0.41	712-806HK	712-807HK	Standard
1st Bicuspid PA 	-7°	+4°	2M		.016	0.41	712-806T2	712-807T2	T2
2nd Bicuspid 	-7°	+2°	0		.016	0.41	712-808	712-809	Standard
2nd Bicuspid Hk 	-7°	+2°	0		.016	0.41	712-808HK	712-809HK	Standard
2nd Bicuspid PA*	-7°	+1°	1D		.016	0.41	712-808T1	712-809T1	T1
2nd Bicuspid PA 	-7°	0°	2D		.016	0.41	712-808T2	712-809T2	T2
2nd Bicuspid PA*	-7°	-1°	3D		.016	0.41	712-808T3	712-809T3	T3
1st Molar	-10°	+5°	10	0	.017	0.43	712-850	712-851	Standard
1st Molar*	-13°	+4°	10	1D	.017	0.43	712-850T1	712-851T1	T1
1st Molar	-14°	+3°	10	2D	.017	0.43	712-850T2	712-851T2	T2
1st Molar*	-15°	+2	10	3D	.017	0.43	712-850T3	712-851T3	T3
1st Molar*	-10°	0°	0	0	.017	0.43	712-850T4	712-851T4	T4
2nd Molar	-10°	+5°	10	0	–	–	712-852	712-853	Standard
2nd Molar*	-13°	+4°	10	1D	–	–	712-852T1	712-853T1	T1
2nd Molar	-14°	+3°	10	2D	–	–	712-852T2	712-853T2	T2
2nd Molar*	-15°	+2°	10	3D	–	–	712-852T3	712-853T3	T3
2nd Molar*	-10°	0°	0	0	–	–	712-852T4	712-853T4	T4

* Call for availability.

Andrews Prescription Mandibular

Mandibular						Item Numbers		Note
				IN/OUT		0.022		
Tooth	Inclination	Angulation	Counter Rotation	In.	mm	L	R	
Anterior 1/2 	-6°	+1.5°	0	.043	1.09	712-810	712-811	Standard
Cuspid	-11°	+3°	0	.017	0.43	712-812	712-813	Standard
Cuspid Hk 	-11°	+3°	0	.017	0.43	712-812HK	712-813HK	Standard
Cuspid PA*	-11°	+4°	1M	.017	0.43	712-812T1	712-813T1	T1
Cuspid PA 	-11°	+5°	2M	.017	0.43	712-812T2	712-813T2	T2
Cuspid PA*	-11°	+6°	3M	.017	0.43	712-812T3	712-813T3	T3
1st Bicuspid	-17°	+2°	0	.024	0.61	712-814	712-815	Standard
1st Bicuspid Hk 	-17°	+2°	0	.024	0.61	712-814HK	712-815HK	Standard
1st Bicuspid PA 	-17°	+4°	2M	.024	0.61	712-814T2	712-815T2	T2
2nd Bicuspid	-22°	+2°	0	.024	0.61	712-816	712-817	Standard
2nd Bicuspid Hk 	-22°	+2°	0	.024	0.61	712-816HK	712-817HK	Standard
2nd Bicuspid PA*	-22°	+1°	1D	.024	0.61	712-816T1	712-817T1	T1
2nd Bicuspid PA 	-22°	0°	2D	.024	0.61	712-816T2	712-817T2	T2
2nd Bicuspid PA*	-22°	-1°	3D	.024	0.61	712-816T3	712-817T3	T3
1st Molar	-30°	+2°	0	–	–	712-854	712-855	Standard
1st Molar*	-30°	+1°	1D	–	–	712-854T1	712-855T1	T1
1st Molar	-30°	0°	2D	–	–	712-854T2	712-855T2	T2
1st Molar*	-30°	-1°	3D	–	–	712-854T3	712-855T3	T3
2nd Molar	-35°	+2°	0	–	–	712-856	712-857	Standard
2nd Molar*	-35°	+1°	1D	–	–	712-856T1	712-857T1	T1
2nd Molar	-35°	0°	2D	–	–	712-856T2	712-857T2	T2
2nd Molar*	-35°	-1°	3D	–	–	712-856T3	712-857T3	T3

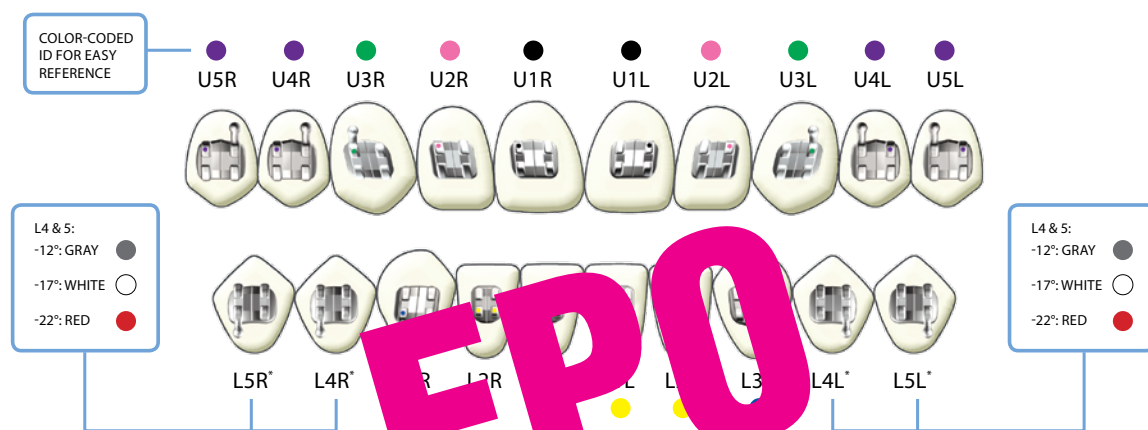
* Call for availability.

Andrews Prescription

Single Patient Kits/Introductory Kit

	Item Numbers
	0.022
Single Patient Kits/Introductory Kit	Carousel
U/L 5X5 Rx #1 Spaced 9-14 mm*	712-901
U/L 5X5 Rx #2 Spaced 5-8 mm	712-902
U/L 5X5 Rx #3 Spaced 1-4 mm*	712-903
U/L 5X5 Rx #4 Extraction-4 Classic*	712-904
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
U/L 5X5 Rx #8 Extraction 9-10 mm*	712-908
U/L 5X5 Rx #9 Extraction 11-13 mm*	712-909
U/L 5X5 Rx #10 Extraction 14 mm*	712-910
U/L 5X5 Rx #11 Extraction 14 mm Extraction U4*	712-911
Q-Packs	
U/L 5X5 Rx #1 Spaced 9-14 mm*	712-901Q
U/L 5X5 Rx #2 Spaced 5-8 mm	712-902Q
U/L 5X5 Rx #3 Spaced 1-4 mm*	712-903Q
U/L 5X5 Rx #4 Extraction-4 Classic*	712-904Q
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
U/L 5X5 Rx #8 Extraction 9-10 mm*	712-908Q
U/L 5X5 Rx #9 Extraction 11-13 mm*	712-909Q
U/L 5X5 Rx #10 Extraction 14 mm*	712-910Q
U/L 5X5 Rx #11 Extraction 14 mm Extraction U4 Only*	712-911Q

Intro Kits	
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
"The Six Elements"*	712-BOOK2
Typodonts	
Andrews2 Typodont "Standard"	631-712S
Andrews2 Typodont "Translation"	631-712T
15X Model	
Andrews 15X Model	631-712X



MAXILLARY

U1: BLACK - DISTAL-GINGIVAL TIE WING
 U2: PINK - DISTAL-GINGIVAL TIE WING
 U3: GREEN - DISTAL-GINGIVAL TIE WING
 U4 & 5: PURPLE - DISTAL-GINGIVAL TIE WING

MANDIBULAR

L1 & 2: YELLOW - GINGIVAL TIE WINGS = UNIVERSAL
 L3: BLUE - DISTAL-GINGIVAL TIE WING
 L4 & 5: SEE ABOVE

* Call for availability.

Andrews Foundation

For information on the 6Elements of Orofacial Harmony educational courses through the Andrews Foundation call: In the U.S. 800.799.8952 | Outside the U.S. +(1) 619 224 0866

Website: AndrewsFoundation.org

Andrews²
Appliance
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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