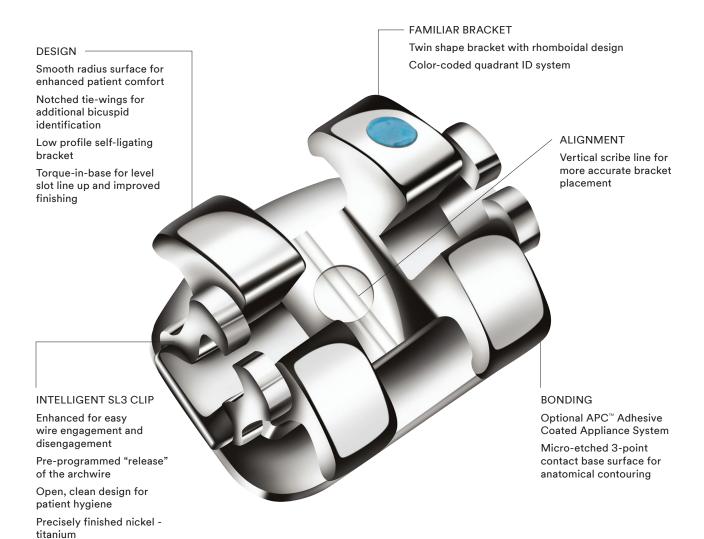
3M SmartClip SL3 Self-Ligating Appliance System	12.2
3M [™] Victory Series [™] Active Self-Ligating Brackets	2.6
Self-Ligating Bracket Hand Instruments	2.8
Archwire Introduction	2.9
Tandem Archwire Technique	2.10
3M [™] Unitek [™] Nitinol Heat-Activated Archwire	2.11
3M™ Unitek™ Nitinol Super-Elastic Archwire	2.12
3M [™] Unitek [™] Nitinol Classic Archwire	2.13
3M [™] Unitek [™] Beta III Titanium Archwire	2.14
Permachrome Resilient Archwire	2.15
3M [™] Unitek [™] Lateral Development Archwire	2.16
Multi-Strand Archwire and Archwire Accessories	2.18
Refer to Section 1 for 3M™ Clarity™ Ultra Self-Ligating Brackets	





Available molar brackets for a complete 6 × 6 system

The SmartClip[™] Self-Ligating Appliance System revolutionizes self-ligation. An integral nickel-titanium clip permits easy and simple archwire insertion and removal, yet holds the archwire with a pre-programmed force that avoids unintentional disengagement. The SmartClip[™] Bracket also features a familiar twin-bracket design and is available in several prescriptions. Choose either the APC[™] II Adhesive Coated Appliance System, the APC[™] PLUS Adhesive Coated Appliance System with color change adhesive, or the APC[™] Flash-Free Adhesive Coated Appliance System for enhanced bonding efficiency. These features, exclusively together in the SmartClip Appliance System, combine to bring greater efficiencies and more predictable outcomes to orthodontic treatment.

SmartClip™ SL3 Brackets available with:

APC™ Flash-Free Adhesive

Also available with APC™ II and APC™ Plus Adhesive pre-coating.

MBT[™] Versatile+ Appliance System

Maxillary					Part N	umber	Part N	umber	Variable Prescription Orthodontics	Rx/ System
			IN/	TUC	.018	B in.	.02	2 in.		
Tooth	Torque	Angulation	in.	mm	L	R	L	R		
Central	+22	+5	.040	1.02	004-403	004-404	004-503	004-504	HIGH	Ricketts*
Central	+22	+4	.040	1.02	004-401**	004-402**	004-501	004-502	HIGH MBT™	MBT
Central	+17	+4	.040	1.02	004-201	004-202	004-301	004-302	MED	MBT
Central	+12	+3	.040	1.02	004-405	004-406	004-505	004-506	LOW	Roth*
Tooth	Torque	Angulation	in.	mm	L	R	L	R		
Lateral	+15	+9	.050	1.27	004-407	004-408	004-507	004-508	HIGH	Ricketts*
Lateral	+10	+8	.050	1.27	004-203	004-204	004-303	004-304	MED	MBT
Lateral	+5	+8	.050	1.27	004-409	004-410	004-509	004-510	LOW	Roth*
Tooth	Torque	Angulation	in.	mm	L	R	L	R		
Cuspid HK	-7	+8	.032	.81	004-209	004-210	004-309	004-310		MBT
Cuspid	0	+8	.032	.81	004-211	004-212	-	-	LOW	MBT/Roth*
Cuspid HK	0	+8	.032	.81	004-213	004-214	004-313	004-314	LOW	MBT/Roth*
Cuspid HK	+3	+8	.032	.81	004-417	004-418	004-517	004-518	MED	
Cuspid HK	+6	+8	.032	.81	004-413	004-414	004-513	004-514	HIGH	Ricketts*
Tooth	Torque	Angulation	in.	mm	L	R	L	R		
Bicuspid Universal Offset	-9	0	.036	.91	004-4	190***		-	LOW	
Bicuspid Universal	-7	0	.036	.91	004	-215	004	-315	MED	MBT/Roth*
Bicuspid HK	-7	0	.036	.91	004-217	004-218	004-317	004-318	MED	MBT/Roth*
Bicuspid Universal Offset	-7	0	.036	.91	004-2	150****	004-	3150	MED	MBT/Roth*
Bicuspid Offset HK	-7	0	.036	.91	004-2170	004-2180	004-3170	004-3180	MED	MBT/Roth*
Bicuspid Universal	-4	0	.036	.91	004	-425	004	-525	HIGH	Ricketts*
Bicuspid HK	-4	0	.036	.91	004-427	004-429	004-527	004-529	HIGH	Ricketts*
Bicuspid Offset HK	-4	0	.036	.91	004-4270	004-4290	-	-	HIGH	Ricketts*
Tooth	Torque	Angulation	in.	mm	L	R	L	R		
1st Molar with Tie-wings	-14	10 (Distal Offset)			004-6011	004-6022	004-7011	004-7022	ALL	ALL

^{*3}M version of this prescription. No endorsement by the Doctor is implied.

Adding Prefix "3" is APC™ II System -Example: 3004-403 Adding Prefix "5" is APC[™] PLUS System – Example: 5004-403 Adding Prefix "4" is APC[™] Flash-Free System – Example: 4004-403

Note

 $\mathsf{APC}^{\scriptscriptstyle{\bowtie}}$ System brackets sold in units of five.

 $\mathsf{APC}^{\scriptscriptstyle{\mathsf{TM}}}$ System molar appliances sold in units of four.

^{**}Available Uncoated only.

^{***}Available Uncoated and with APC™ II Adhesive only.

^{****}Not available with APC™ Plus Adhesive.

Mandibular					Part N	umber	Part N	umber	Variable Prescription Orthodontics	Rx/ System
			IN/C	TUC	.018	3 in.	.02	2 in.		
Tooth	Torque	Angulation	in.	mm	L	R	L	R		
Anterior	-6	0	.060	1.52	004	-229	004	-329	LOW	MBT™
Anterior	-1	0	.060	1.52	004	-431	004	-531	MED	Roth*/ Ricketts*
Anterior	+3	0	.060	1.52	004	-432	004	-532	HIGH	
Tooth	Torque	Angulation	in.	mm	L	R	L	R		
Cuspid HK	-6	+3	.030	.76	004-233	004-234	004-333	004-334	LOW	MBT/Roth*
Cuspid HK	-3	+3	.030	.76	004-439	004-440	004-539	004-540	MED	
Cuspid	0	+3	.030	.76	-	-	004-335**	004-336**		MBT
Cuspid HK	0	+3	.030	.76	004-237	004-238	004-337	004-338		MBT
Cuspid HK	+7	+3	.030	.76	004-435	004-436	004-535	004-536	HIGH	Ricketts*
Tooth	Torque	Angulation	in.	mm	L	R	L	R		
1st Bicuspid	-12	+2	.038	.97	004-239	004-240	004-339	004-340	ALL	ALL
1st Bicuspid Offset	-12	+2	.038	.97	004-2390	004-2400	-	-	ALL	ALL
1st Bicuspid HK	-12	+2	.038	.97	004-241	004-242	004-341	004-342	ALL	ALL
1st Bicuspid HK Offset	-12	+2	.038	.97	004-2410	004-2420	004-3410	004-3420	ALL	ALL
Tooth	Torque	Angulation	in.	mm	L	R	L	R		
2nd Bicuspid	-17	+2	.039	.99	004-247	004-248	004-347	004-348	ALL	ALL
2nd Bicuspid Offset	-17	+2	.039	.99	004-2470	004-2480	004-3470	004-3480	ALL	ALL
2nd Bicuspid HK	-17	+2	.039	.99	004-249	004-250	004-349	004-350	ALL	ALL
2nd Bicuspid HK Offset	-17	+2	.039	.99	004-2490	004-2500	004-3490	004-3500	ALL	ALL
Tooth	Torque	Angulation	in.	mm	L	R	L	R		
1st Molar with Tie-wings	-20	0 (Distal Offset)			004-6033	004-6044	004-7033	004-7044	ALL	ALL

^{*3}M version of this prescription. No endorsement by the Doctor is implied.

Adding Prefix "3" is APC™ II System – Example: 3004-229

Adding Prefix "5" is APC™ PLUS System – Example: 5004-229

Adding Prefix "4" is APC™ Flash-Free System – Example: 4004-229

Note

 $\mathsf{APC}^{\scriptscriptstyle{\bowtie}}$ System brackets sold in units of five.

 $\mathsf{APC}^{^{\mathsf{\tiny M}}}$ System molar appliances sold in units of four.

^{**}Available Uncoated and with APC™ Flash-Free Adhesive only.

Single Patient Kits	Part Number	Part Number	Rx
Single Patient Kits – 6×6	.018 in.	.022 in.	
U/L 6×6 Cuspid HK	-	004-127*	MBT
U/L 6×6 HK	-	004-128	MBT
U/L 6×6 0° Torque Cuspid Cuspid HK	004-110**	004-130	MBT
U/L 6×6 0° Torque Cuspid HK	-	004-131***	MBT
		is APC™ II System 3004-106	
		APC [™] PLUS System 5004-106	
*Available Uncoated and with APC™ II Adhesive Kits only. **Available Uncoated and with APC™ Flash-Free Adhesive only. ***Available Uncoated and with APC™ PLUS Adhesive Kits only.		PC [™] Flash-Free System 4004-106	

Single Patient Kits	Part Number	Part Number	Rx
Single Patient Kits – 5×5	.018 in.	.022 in.	<u> </u>
U/L 5×5	-	004-120**	MBT
U/L 5×5 Cuspid HK	004-101**	004-121	MBT
U/L 5×5 HK	004-102	004-122	MBT
U/L 5×5 0° Torque Cuspid Cuspid	-	004-123***	MBT
U/L 5×5 0° Torque Cuspid Cuspid HK	004-104	004-124	MBT
U/L 5×5 0° Torque Cuspid HK	004-105	004-125	MBT
U/L 5×5 HK	-	004-147***	Ricketts*
U/L 5×5 Cuspid HK	004-133	-	Roth*
U/L 5×5 HK	-	004-144	Roth*
		' is APC™ II System 3004-100	

^{*3}M version of this prescription. No endorsement by the

007 177	
Adding Prefix "3" is APC™ II System Example: 3004-100	
Adding Prefix "5" is APC™ PLUS System Example: 5004-100	
Adding Prefix "4" is APC [™] Flash-Free System Example: 4004-100	

Note

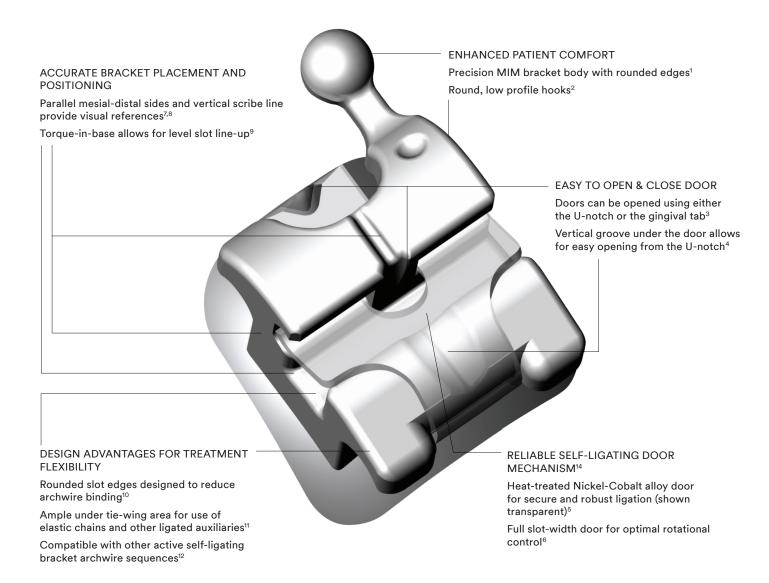
APC™ System brackets sold in units of five.

APC™ System molar appliances sold in units of four.

^{**}Available Uncoated and with APC™ Flash-Free Adhesive only.

^{***}Available in Uncoated Kit only.

Victory Series™ Active Self-Ligating Brackets



Victory Series Brackets are widely accepted as an industry benchmark for outstanding performance. Advanced Victory Series™ Active Self-Ligating Brackets have been designed and detailed to be no exception. Quality manufactured to strict tolerances and extensively tested to assure reliability, Victory Series Active Self-Ligating Brackets will help you effectively treat even the most difficult cases with confidence.

The Victory Series Active Self-Ligating Bracket has a robust ligating mechanism that is designed for reliability in use and ease of operation. And the full slot-width size door maximizes available rotational control capability. You can also add optional APC™ II Adhesive coating for reduced bonding steps and added convenience.

Victory Series™ Active Brackets available with:

APC™ II Adhesive

INTRICATE BASE FOR GREATER BOND STRENGTH

Micro-etched, 80-gauge mesh pad applied at a 45° angle¹³ Anatomically contoured base surface¹³

Optional APC™ Adhesive Coated Appliance System



References 1-14, see complete list in publication 021-148, Victory Series™ Active Self-Ligating Appliances.

Victory Series™ Active Self-Ligating Brackets

Parts List - 0.022 slot Roth* Prescription

Maxillary			IN/OUT 0.02			22 in.	
Tooth	Torque	Angulation	in.	mm	L	R	
Central	+12	+5	0.040	1.02	025-301	025-302	
Lateral	+8	+9	0.049	1.24	025-303	025-304	
Cuspid HK	-2	+10	0.032	0.81	025-307	025-308	
Bicuspid HK	-7	0	0.037	0.94	025-310	025-311	
Mandibular			IN/OUT		0.022 in.		
Tooth	Torque	Angulation	in.	mm	L	R	
Anterior	-1	0	0.058	1.47	025-	·312	
Cuspid HK	-11	+7	0.030	0.76	025-315	025-316	
1st Bicuspid HK	-17	0	0.039	0.99	025-319	025-320	
2nd Bicuspid HK	-22	0	0.033	0.84	025-323	025-324	
		1		1	Adding Prefix "3" is APC™ II Adhe	sive System – Example: 3025-	

Single Patient Kits	Part Number
Single Patient Kits – 5×5	0.022 in.
U/L 5×5 Victory Series™ Active Self-Ligating Brackets HKs	025-127
	Adding Prefix "3" is APC™ II Adhesive System – <i>Example: 3025-127</i>

Active Bracket Design means Dynamic Performance.

Victory Series Active Self-Ligating Brackets offer dynamic interaction between the ligating mechanism and the archwire as treatment phases change, with performance advantages in each phase.

Passive Phase



Round archwires in .022 slot

With round archwires, the bracket is passive, resulting in minimal archwire contact and low friction for efficient leveling and alignment.

Interactive Phase



Sizes below .016 x .025 in .022 slot

Small square

or rectangular archwires fill the slot but do not reach the ligating mechanism. This adds control during the working phase for space closure, rotation control and arch form expression.

Active Phase



Sizes starting at .016 x .025 in .022 slot

Larger rectangular archwires engage the ligating mechanism. offering full control for finishing and detailing.

^{*3}M version of this prescription. No endorsement by the Doctor is implied.

Self-Ligating Bracket Hand Instruments



SmartClip™ Appliance Wire Disengagement Hand Instrument

Archwires are removed from Clarity™ SL Brackets or SmartClip™ Brackets by sliding the instrument's hooks beneath the archwire and lifting it away from the bracket with a squeeze.

804-160

804-161 Slide Reorder Pack 5/pk

804-162 Hook Insert Replacement with Allen Wrench and set of screws



SmartClip™ Appliance Wire Insertion Hand Instrument

Using the single tip on one end or the double tip on the other end, archwires are engaged into Clarity™ SL Brackets or SmartClip™ Brackets with a roll of the hand.

804-152 .022 Bracket Instrument **804-153** .018 Bracket Instrument



Unitek™ Self-Ligating Bracket Debonding Instrument

Distinguished debonding tool designed for the 3M Unitek Self-Ligating Bracket System: Clarity™ SL Self-Ligating Brackets and SmartClip™ Self-Ligating Brackets. Also recommended for Clarity™ Advanced Ceramic Brackets. May be used with or without the archwire engaged in the bracket slot.

804-170



Unitek™ Bracket Placement Instrument

Stainless Steel Reverse Action Tweezer/Instrument designed with Self-Ligating brackets in mind. The downward slope of the forearm improves operator visibility while placing the bracket onto the tooth. The instrument is constructed with a convex reverse end that can be used to seat brackets, the slender tips and concave undercarriage allow easy bracket removal from the APC Adhesive blister.

804-171



Double-Ended Dual Purpose Instrument

Double-Ended dual purpose instrument can be used to open the doors of Victory Series™ Active Self-Ligating Brackets.

Combines offset taper for removing AlastiK[™] Ligatures on one end and an angled notch ligature director on the other end to facilitate AlastiK module placement in hard-to-reach places.

900-815

Archwire Introduction

Many orthodontists state that archwire selection is more important when working with a self-ligating appliance than with a traditional appliance. Of significant importance are the force profiles, dimensional integrity and arch form availability of the archwires.

Force Profiles

When working in a low friction environment it is important to select archwires that deliver minimal, consistent and predictable force levels. For this reason, 3M has designed archwires in a variety of materials and sizes to offer a large range of force profiles.

Dimensional Integrity

In a self-ligating system where ligatures are not actively seating the archwire, dimensional consistency is essential for the archwire to predictably express torquing, rotating and tipping movements. All 3M square and rectangle archwires are engineered to have precise corner radii that deliver predictable torque control. 3M archwires are available in a range of dimensions and include Hybrid and Dimpled options.

Arch Forms

A critical part of successful treatment is having an archwire that predictably develops the arch form best suited for each patient. 3M provides three OrthoForm™ Arch Forms - Tapered, Square, and Ovoid - that offer the diversity needed to fit the range of arch forms among orthodontic cases.

3M also offers a large variety of wire auxiliaries to allow you to best treat your patients.

Simplified Archwire Sequence For Self-Ligating **Appliances**

Note: There are many variations to this basic sequence that can be used. Archwire sequence should always be modified to best treat each individual case. Hybrid rectangular arches can be substituted depending on torque requirements.

Treatment Phase	.018 Slot	.022 Slot
Initial Phase Getting Organized I leveling I aligning Necessary Wire Criteria I ow forces I ow modulus I ow friction	Nitinol Classic .012 Nitinol SE or HA .014	Nitinol Classic .012 Nitinol SE or HA .014 Nitinol HA .016
Intermediate Phase Working the Big Picture arch form correction occlusal plane leveling rotating tipping Necessary Wire Criteria medium forces medium working range medium modulus medium malleability low friction	Nitinol SE or HA .014 with Nitinol SE .014 tandem Nitinol SE or HA .018 Nitinol HA .016 x .025	Nitinol SE or HA .014 with Nitinol SE .014 or .016 tandem Nitinol SE or HA .020 Nitinol HA .016 x .025
Finishing Phase Getting Down to Details • vertical detailing • space closure • refine interdigitation • retention Necessary Wire Criteria • medium forces • short working range • high modulus • high malleability	Beta III Titanium (non-extraction) .016 x .025 .017 x .025 Permachrome Resilient (extraction) .016 x .025 .017 x .025 Braided .017 x .025	Beta III Titanium (non-extraction) .019 x .025 Permachrome Resilient (extraction) .019 x .025 Braided .019 x .025



Archwire

Tandem Archwires: Filling the Slot

Tandem archwires have shown to produce significant results in correcting rotations and creating leveling and alignment in SmartClip™ SL3.

In order to correct rotations and level and align the teeth early in treatment, the goal is to engage archwires that fill the horizontal plane and have a low unloading force. Using two flexible round archwires in tandem fills both the horizontal and vertical planes of the bracket slot. This configuration corrects and manages rotations while simultaneously correcting vertical discrepancies.



The tandem archwire should be inserted directly on top of the initial archwire used in treatment. There is no need to disengage the initial archwire, saving valuable chair time.

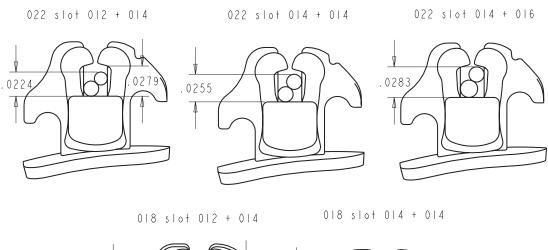
Tandem Archwire Combinations

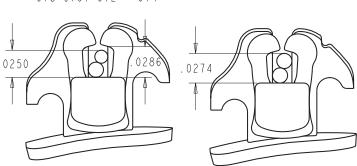
Slot	Initial Archwire	Tandem Archwire
.018/.022	.012	.014
.018/.022	.014	.014
.022	.014	.016

The choice of tandem archwire combination depends on the slot size and degree of rotational deflection. In most cases, the .018 slot option will be the .014/.014 and the .022 slot will be the .014/.016 combination.

SCALE 20.000

SmartClip[™] Appliance Lower Anterior





Unitek™ Nitinol Heat-Activated Archwire





Dimension Inches	Dimension mm	OrthoForm [™] II Square	OrthoForm [™] III Ovoid
Round			
Upper			
.014	.36	9296-609	9296-611
.016	.41	4296-985	4296-991
.018	.46	4296-987	4296-993
.020	.51	-	4296-995
.0215	.55	9296-615	9296-617
Lower			
.014	.36	9296-610	9296-612
.016	.41	4296-986	4296-992
.018	.46	4296-988	4296-994
.020	.51	-	4296-996
.0215	.55	9296-616	9296-618
Rectangular/Square			
Upper			
.014 x .025	.36 x .64	9296-633	9296-635
.016 x .025	.41 x .64	9296-621	9296-623
.0175 x .0175	.44 x .44	4297-975	4297-911
.017 x .025	.43 x .64	4297-991	4297-921
.017 x .025 H*	.43 x .64	9296-627	9296-629
.019 x .025	.53 x .64	4297-977	4297-919
.019 x .025 H*	.48 x .64	9296-645	9296-647
.021 x .025 H*	.53 x .64		9296-641
Lower			
.014 x .025	.36 x .64	9296-634	9296-636
.016 x .025	.41 x .64	9296-622	9296-624
.0175 x .0175	.44 x .44	4297-976	4297-912
.017 x .025	.43 x .64	4297-992	4297-922
.017 x .025 H*	.43 x .64	9296-628	9296-630
.019 x .025	.48 x .64	4297-978	4297-920
.019 x .025 H*	.48 x .64	9296-646	9296-648
.021 x .025 H*	.53 x .64	-	9296-642

^{*}Hybrid

Nitinol Heat-Activated is a thermally activated super-elastic archwire. It is the easiest of Nitinol wires to engage, and it delivers light continuous forces that effectively move teeth with minimal discomfort to the patient.

- Can be cooled or chilled resulting in a softer, more pliable wire for easy engagement
- Provides light continuous forces
- Force activation occurs around body temperature
- Available in square sizes making it excellent for early torque control
- Good bend retention when bent in hot water
- 10/pk unit of use



Unitek[™] Nitinol Super-Elastic Archwire





	Dimension	Dimension	OrthoForm™ II	OrthoForm [™] III
	Inches	mm	Square	Ovoid
Round				
Upper				
	.014	.36	4296-805	4296-911
	.014 D**	.36	9296-805	9296-911
	.016	.41	4296-807	4296-913
	.016 D**	.41	9296-807	9296-913
	.018	.46	4296-809	4296-915
	.020	.51	4296-811	4296-917
Lower				
	.014	.36	4296-806	4296-912
	.014 D**	.36	9296-806	9296-912
	.016	.41	4296-808	4296-914
	.016 D**	.41	9296-808	9296-914
	.018	.46	4296-810	4296-916
	.020	.51	4296-812	4296-918
Rectan	ngular/Square			
Upper				
.014	x .025 D**	.36 x .64	9293-815	9293-817
.016	x .016	.41 x .41	4297-803	4297-951
.016	x .025 D**	.41 x .64	9293-851	9293-853
.017	x .025	.43 x .64	4297-807	4297-955
.017	x .025 D**	.43 x .64	9297-807	9297-955
.017	x .025 H* D**	.43 x .64	9293-879	9293-881
.018	x .018	.46 x .46	4297-809	4297-957
.018	x .025	.46 x .64	4297-813	4297-959
.018	x .025 H*	.46 x .64	9293-905	9293-907
.019	x .025	.48 x .64	4297-815	4297-961
.019	x .025 H*	.46 x .64	9296-651	9296-653
.021	x .025 H*	.53 x .64	9293-933	9293-935
Lower				
.014	x .025 D**	.36 x .64	9293-816	9293-818
.016	x .016	.41 x .41	4297-804	4297-952
.016	x .025 D**	.41 x .64	9293-852	9293-854
	x .025	.43 x .64	4297-808	4297-956
.017	x .025 D**	.43 x .64	9297-808	9297-956
.017	x .025 H* D**	.43 x .64	9293-880	9293-882
.018	x .018	.46 x .46	4297-810	4297-958
	x .025	.46 x .64	4297-814	4297-960
	x .025 H*	.46 x .64	9293-906	9293-908
	x .025	.48 x .64	4297-816	4297-962
.019	x .025 H*	.48 x .64	9296-652	9296-654
.021	x .025 H*	.53 x .64	9293-934	9293-936

^{*}Hybrid **Dimpled

Nitinol Super-Elastic is easy to engage and maintains light continuous forces with a range between Nitinol Heat-Activated and Nitinol Classic.

- Provides light continuous forces
- Easy engagement characteristics
- Good early torque control
- 10/pk unit of use



Unitek[™] Nitinol Classic Archwire





		I I			
Dimension	Dimension	OrthoForm [™] II	OrthoForm™ III		
Inches	mm	Square	Ovoid		
Round					
Upper					
.012	.30	9296-603	9296-605		
.014	.36	4296-405	4296-517		
.014 D**	.36	9296-405	9296-517		
.016	.41	4296-407	4296-519		
.016 D**	.41	9296-407	9296-519		
.018	.46	4296-409	4296-521		
.020	.51	4296-411	4296-523		
Lower		'			
.012	.30	9296-604	9296-606		
.014	.36	4296-406	4296-518		
.014 D**	.36	9296-406	9296-518		
.016	.41	4296-408	4296-520		
.016 D**	.41	9296-408	9296-520		
.018	.46	4296-410	4296-522		
.020	.51	4296-412	4296-524		
Rectangular/Square					
Upper					
.014 x .025 D**	.36 x .64	9293-821	9293-823		
.016 x .016	.41 x .41	4297-701	4297-851		
.016 x .025 D**	.41 x .64	-	9293-859		
.017 x .025	.43 x .64	4297-707	4297-857		
.017 x .025 D**	.43 x .64	-	9297-857		
.018 x .018	.46 x .46	4297-709	4297-859		
.018 x .025	.46 x .64	4297-713	4297-863		
.019 x .025	.48 x .64	4297-715	4297-865		
.019 x .025 H*	.48 x .64	9293-953	9293-955		
Lower					
.014 x .025 D**	.36 x .64	9293-822	9293-824		
.016 x .016	.41 x .41	4297-702	4297-852		
.016 x .025 D**	.41 x .64	-	9293-860		
.017 x .025 D**	.43 x .64	4297-708	4297-858		
.017 x .025 D**	.43 x .64	-	9297-858		
.018 x .018	.46 x .46	4297-710	4297-860		
.018 x .025	.46 x .64	4297-714	4297-864		
.019 x .025	.48 x .64	4297-716	4297-866		
.019 x .025 H*	.48 x .64	9293-954	9293-956		

^{*}Hybrid **Dimpled

3M pioneered nickel-titanium as an improved alternative to stainless steel in 1977. This "Classic" archwire continues to provide the linear elasticity and bendability of high strength steel and the elastic working range and lighter forces that only a nickel-titanium can deliver.

- Long working range
- 40% the forces of stainless steel
- 10/pk unit of use



Unitek[™] Beta III Titanium Archwire





Dimension Inches	Dimension mm	OrthoForm [™] II Square	OrthoForm™ III Ovoid
Rectangular/Square			
Upper			
. 016 x .025	.41 x .64	4301-352	4301-354
.0175 x .0175	.44 x .44	4301-336	4301-338
.017 x .025	.43 x .64	4301-308	4301-310
.019 x .025	.48 x .64	4301-314	4301-316
Lower			
.016 x .025	.41 x .64	4301-353	4301-355
.0175 x .0175	.44 x .44	4301-337	4301-339
.017 x .025	.43 x .64	4301-309	4301-311
.019 x .025	.48 x .64	4301-315	4301-317

Known as the "happy medium" between nickel-titanium and stainless steel, this archwire provides the extended working range of a titanium alloy and the bendability of stainless steel.

- Processed to reduce breakage
- Polished surface finish for improved sliding mechanics
- Tight corner radii specifications reducing torque loss, especially in final phase of treatment
- 10/pk unit of use



Permachrome Resilient Archwire





Dimension Inches	Dimension mm	Or	thoForm [™] II Square	0	orthoForm™ III Ovoid
Round					
Upper					
.012	.30		4300-603		300-003
.014	.36	4	300-605	4	300-005
.016	.41	4	300-607	4	300-007
.018	.46	4	300-609	4	300-009
.020	.51	4	300-611	4	300-011
Lower					
.012	.30		4300-604		300-004
.014	.36	4	300-606	4	300-006
.016	.41	4	300-608	4	300-008
.018	.46	4	300-610	4	300-010
.020	.51	4	300-612	4	300-012
Rectangular/Square					
Upper .016 x .016	.41 x .41	4	300-615	4	300-015
.016 x .016	.41 x .64	4	4300-657	4	300-659
.0175 x .0175	.41 x .64		4293-341	7	4293-351
.017 x .025	.43 x .64	4	300-621	4	
.017 x .025 H*	.43 x .64		9293-891	7	9293-893
.018 x .025	.46 x .64	4	300-625	4	300-025
.018 x .025 H*	.46 x .64		9293-917		9293-919
.019 x .025	.48 x .64	4	300-627	4	
.019 x .025 H*	.48 x .64		9293-959	Ė	9293-961
Lower					
.016 x .016	.41 x .41	4	300-616	4	300-016
.016 x .025	.41 x .64		4300-658	4	300-660
.0175 x .0175	.44 x .44		4293-342		4293-352
.017 x .022	.43 x .56		4300-620	4	300-020
.017 x .025	.43 x .64	4		4	300-022
.017 x .025 H*	.43 x .64		9293-892		9293-894
.018 x .025	.46 x .64	4	300-626	4	300-026
.018 x .025 H*	.46 x .64		9293-918		9293-920
.019 x .025	.48 x .64	4	300-628	4	300-028
.019 x .025 H*	.48 x .64		9293-960		9293-962
*Hybrid		<u> </u>		e	
TIYDIIG		Unit of Use		Unit of Use	
		tof		to	
		ia.		J.	





Our most popular stainless steel archwire - delivering a balance of malleability and springback.

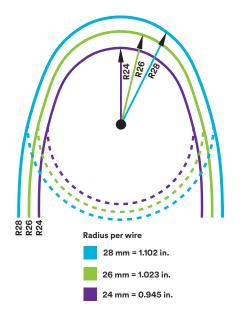
- Better formability than Hi-T™ II
- Mid-range tensile strength
- OrthoForm™ II, III, Arch Forms packed 50/pk unit of use or 10/pk folders
- Hybrid and Dimpled packed 10/pk unit of use

Unitek™ Lateral Development Archwire

Lateral Development can help achieve a Platinum Proportion smile, which is the esthetic result that occurs when properly selected archwires completely express the lateral dimension of the upper arch, creating a gradation that exceeds the traditional Golden Proportion.

Dr. Robert Waugh designed Unitek Lateral Development Archwires for treatment of patients with smaller tooth anatomy and/or spacing. After measuring all anterior teeth in his practice for over five years, he has crystallized a method to consistently deliver a predictable anterior display while idealizing functional coupling of anterior teeth.

A unique feature of the Unitek Lateral Development System is that the archwires have circular anterior contours available in three coordinating sizes with approximate radii of 28 mm, 26 mm and 24 mm. Each wire is specifically designed to align and display the upper anterior six teeth for a known range of mesial-distal tooth sizes. Now, patients with small, medium, and large teeth can achieve both a predictable esthetic display and coordinated occlusion.



Simple Technique for Choosing the Right Arch Form

1. After initial alignment, total the collective mesio-distal widths of the upper anterior six teeth (rounded to nearest 1/10th of a millimeter).

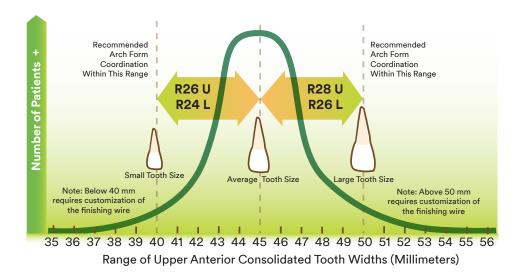


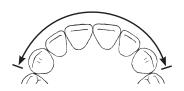


This case displays a consolidated width of 44.8 mm, indicating consideration of arch forms R26 upper and R24 lower.

2. Using the reference diagram below, select the appropriate upper arch form radius for the patient's "Platinum Proportion" or gradation (R28, R26 or R24). Based on the upper arch form radius, select the appropriate lower archwire.

Tooth Size Range - Corresponding Arch Form Size





Consolidated width 3 2 1 1 2 3 indicates arch form size:

Less than 40 mm = Customize R24 40 mm - 45 mm = R26 Upper and R24 Lower 45 mm - 50 mm = R28 Upper and R26 Lower More than 50 mm = Customize R28

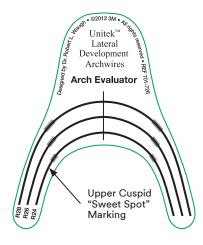
Unitek™ Lateral Development Archwire

Dimension						
mm	R28		R26		R24	
.30	4581-301	5	4581-302	5	4581-303	5
.33	4581-304	5	4581-305	5	4581-306	5
.36	4581-307	5	4581-308	5	4581-309	
.41	4581-310	5	4581-311	5	4581-312	
.46	4581-313	5	4581-314	5	4581-315	
.51	4581-316	5	4581-317	5	4581-318	;
.36 x .64	4581-319	5	4581-320	5	4581-321	
.41 x .56	4581-322	5	4581-323	5	4581-324	;
.41 x .64	4581-325	5	4581-326	5	4581-327	
.43 x .64	4581-328	5	4581-329	5	4581-330	
.46 x .64	4581-331	5	4581-332	5	4581-333	
.48 x .64	4581-334	5	4581-335	5	4581-336	
.36 x .64	4585-301	5	4585-302	5	4585-303	T
.41 x .64	4585-304	5	4585-305	5	4585-306	
.43 x .64	4585-307	5	4585-308	5	4585-309	
.46 x .64	4585-310	5	4585-311	5	4585-312	
.48 x .64	4585-313	5	4585-314	5	4585-315	
.41 x .56	4582-301		4582-302		4582-303	Т
.43 x .64	4582-304		4582-305		4582-306	
.48 x .64	4582-307		4582-308		4582-309	
.41 x .56	4583-301		4583-302		4583-303	Т
.41 x .64	4583-304		4583-305		4583-306	
.43 x .64	4583-307		4583-308		4583-309	
.48 x .64	4583-310		4583-311		4583-312	
		sc		sc		
		stop		stop		
HA archwires with pre-lo		£		£		
	.30 .33 .36 .41 .46 .51 .36 x .64 .41 x .56 .41 x .64 .43 x .64 .48 x .64 .41 x .64 .43 x .64 .44 x .64 .43 x .64 .45 x .64 .46 x .64 .47 x .64 .48 x .64 .48 x .64 .41 x .66	mm R28 .30 4581-301 .33 4581-304 .36 4581-307 .41 4581-310 .46 4581-313 .51 4581-319 .41 x .56 4581-322 .41 x .64 4581-325 .43 x .64 4581-328 .46 x .64 4581-331 .48 x .64 4581-334 .36 x .64 4581-334 .36 x .64 4585-301 .41 x .64 4585-304 .43 x .64 4585-307 .46 x .64 4585-313 .41 x .56 4582-301 .43 x .64 4582-304 .48 x .64 4582-307 .41 x .56 4583-301 .41 x .64 4583-301 .41 x .64 4583-301 .41 x .64 4583-301 .43 x .64 4583-301 .48 x .64 4583-301	mm R28 .30 4581-301 5 .33 4581-304 5 .36 4581-307 5 .41 4581-310 5 .46 4581-313 5 .51 4581-316 5 .36 x .64 4581-319 5 .41 x .56 4581-322 5 .41 x .64 4581-325 5 .43 x .64 4581-328 5 .46 x .64 4581-331 5 .48 x .64 4581-334 5 .36 x .64 4585-301 5 .41 x .64 4585-304 5 .43 x .64 4585-310 5 .41 x .56 4582-301 5 .41 x .56 4582-301 4 <	mm R28 R26 .30 4581-301 5 4581-302 .33 4581-304 5 4581-305 .36 4581-307 5 4581-308 .41 4581-310 5 4581-311 .46 4581-313 5 4581-314 .51 4581-316 5 4581-317 .36 x .64 4581-319 5 4581-320 .41 x .56 4581-322 5 4581-323 .41 x .64 4581-325 5 4581-323 .43 x .64 4581-331 5 4581-329 .46 x .64 4581-331 5 4581-332 .48 x .64 4581-334 5 4581-332 .48 x .64 4585-301 5 4585-302 .41 x .64 4585-307 5 4585-303 .46 x .64 4585-310 5 4585-311 .48 x .64 4582-301 4582-305 .43 x .64 4582-301 4582-305 .43 x .64	mm R28 R26 .30 4581-301 5 4581-302 5 .33 4581-304 5 4581-305 5 .36 4581-307 5 4581-308 5 .41 4581-310 5 4581-311 5 .46 4581-313 5 4581-314 5 .51 4581-316 5 4581-317 5 .36 x .64 4581-316 5 4581-317 5 .41 x .56 4581-319 5 4581-320 5 .41 x .64 4581-322 5 4581-323 5 .43 x .64 4581-328 5 4581-329 5 .46 x .64 4581-331 5 4581-329 5 .48 x .64 4581-331 5 4581-332 5 .48 x .64 4585-301 5 4585-302 5 .41 x .64 4585-301 5 4585-305 5 .43 x .64 4585-313 5 45	R28

- stops, add a "5" at the end of the 7-digit part number
- 10/pk unit of use

The Arch Evaluator is a useful tool that can be used at various times during treatment.

- Helps estimate the necessary lateral development
- Allows you to identify upper cuspid "Sweet Spot" position on wires and confirm proper upper cuspid bracket positioning
- Helps evaluate progression of lateral development
- Use on diagnostic model as an early guide for archwire sizing
- Can be used with wax bite to assess lateral development
- Confirms arch form size prior to insertion
- Tabletop guide for restoring shape following adjustment bends
- Reference for customizing extra-large or extra-small arch forms in extreme cases

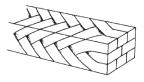


Arch Evaluator (5/pk) **REF 701-726**

Multi-Strand Archwire

Unitek™ Braided Wire

- Eight (8) strand Braided Rectangular
- Three dimensional control
- Wide working range
- 10/pk







		l l					
Dimension Inches	Dimension mm	OrthoForm [™] II Square	OrthoForm™ III Ovoid				
Rectangular/Square							
Upper							
.017 x .025	.43 x .64	300-909	300-967				
.018 x .025	.46 x .64	300-911	-				
.019 x .025	.48 x .64	300-913	300-971				
Lower							
.017 x .025	.43 x .64	300-910	300-968				
.018 x .025	.46 x .64	300-912	-				
.019 x .025	.48 x .64	300-914	300-972				

Archwire Accessories

Unitek[™] Archwire Dispenser

Holds up to six boxes of archwires (archwires not included). White Plexiglass. **453-012**



Light Wire Arch Computer

Flexible vinyl computer used for fast determination of proper archwire size by measuring cuspid-to-cuspid distance on patient's model.

701-720

Refer to Supplies and Equipment section for arch form symmetry aids.