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Phoenix Optimal 2x Twin Bracket System



A low profile system with rounded facial contours for patient comfort. Clinicians benefit from enhanced design features provided by state-of-the-art metal injection molding (MIM) manufacturing.



- Rhomboid bracket and pad design.
- Permanent ID marks enhanced with a full color code system assists accurate bonding preparation.
- Recessed center scribe line aids positioning and seating.



- True compound contour brackets and bases with specific anatomy matching the middle one third of each tooth. A better fit and a stronger bond.
- Fully radiused slot contact points reduce binding of wires in rotations and vertical discrepancies.



- Easy ligation tie wing areas.
- Level slot alignment with torque in base reduces arch wire finishing bends.



- Micro etched 80 gauge mesh increases shear strength by 35% and provides a color contrast when applying adhesive, assuring complete coverage.

Offset – Standard Bicuspids



- Brazing alloy is steel colored for a premium finish and is highly tarnish resistant.



Phoenix Optimal 2x Twin Bracket System

Maxillary	Torque	Angulation	Width mm	In/Out mm	ID	.018 Slot	.022 Slot
Central	22	5	3.5	0.91	●	511-181UR/22 511-181UL/22	511-221UR/22 511-221UL/22
Central	17	4	3.5	0.91	●	511-181UR/17 511-181UL/17	511-221UR/17 511-221UL/17
Central	12	5	3.5	0.91	●	511-181UR/12 511-181UL/12	511-221UR/12 511-221UL/12
Lateral	10	8	2.9	1.27	●	511-182UR/10 511-182UL/10	511-222UR/10 511-222UL/10
Lateral	8	9	2.9	1.27	●	511-182UR/8 511-182UL/8	511-222UR/8 511-222UL/8
Cuspid HK	-7	8	3.0	0.84	●	511-183URHK 511-183ULHK	511-223URHK 511-223ULHK
Cuspid HK	0	8	3.0	0.84	●	511-183URHK/OT 511-183ULHK/OT	511-223URHK/OT 511-223ULHK/OT
Bicuspid	-7	0	3.0	0.84	●	511-184,5U	511-224,5U
Bicuspid HK	-7	0	3.0	0.84	●	511-184,5URHK 511-184,5ULHK	511-224,5URHK 511-224,5ULHK
Bicuspid Offset	-7	0	3.0	0.84	●	511-184,5UOF	511-224,5UOF
Bicuspid Offset HK	-7	0	3.0	0.84	●	511-184,5UROFHK 511-184,5ULOFHK	511-224,5UROFHK 511-224,5ULOFHK

Mandibular	Torque	Angulation	Width mm	In/Out mm	ID	.018 Slot	.022 Slot
Anteriors	-6	0	2.5	1.27	●	511-181,2/-6	511-221,2/-6
Anteriors	0	0	2.5	1.27	●	511-181,2/0	511-221,2/0
Cuspid HK	-6	3	3.0	0.81	●	511-183LRHK 511-183LLHK	511-223LRHK 511-223LLHK
Cuspid HK	0	3	3.0	0.81	●	511-183LRHK/OT 511-183LLHK/OT	511-223LRHK/OT 511-223LLHK/OT
1st Bicuspid	-12	0	3.0	0.81	●	511-184L	511-224L
1st Bicuspid HK	-12	0	3.0	0.81	●	511-184LRHK 511-184LLHK	511-224LRHK 511-224LLHK
1st Bicuspid Offset	-12	0	3.0	0.81	●	511-184LOF	511-224LOF
1st Bicuspid Offset HK	-12	0	3.0	0.81	●	511-184LROFHK 511-184LLOFHK	511-224LROFHK 511-224LLOFHK
2nd Bicuspid	-17	0	3.0	0.81	●	511-185L	511-225L
2nd Bicuspid HK	-17	0	3.0	0.81	●	511-185LRHK 511-185LLHK	511-225LRHK 511-225LLHK
2nd Bicuspid Offset	-17	0	3.0	0.81	●	511-185LOF	511-225LOF
2nd Bicuspid Offset HK	-17	0	3.0	0.81	●	511-185LROFHK 511-185LLOFHK	511-225LROFHK 511-225LLOFHK

Optimal 2x Twin System 10/Pkg.

Phoenix Crystal Clear Twin System



Made in Austria

An innovative new material using medical grade and highly biocompatible copolymers with a small amount of ceramic to increase strength and hardness. It has passed biocompatible tests of skin sensitization, cytotoxicity, oral toxicity and mutagen and no leakage of PBA. The material is 3D printed into each bracket specification with exacting tolerances in all dimensions.



- Textured base bonds and debonds like metal, using your normal adhesives.
- Safe to use. Unlike mono or polycrystalline ceramic brackets, Crystal Clear will not damage opposing enamel and is appropriate for use on the lower arch for maximum aesthetic appearance. Reduced breakage from occlusal forces or during removal, compared to traditional mono or polycrystalline brackets.



- The true twin design at all positions treats as you would with metal twins and sliding mechanics are better than any ceramic.
- The low profile design offers soft curved labial surfaces for the highest degree of patient comfort. They have a very soft feel, unlike any other aesthetic or metal bracket.



- Perfectly clear and incredibly stain resistant throughout normal or extended treatment times.
- Durable in use. Withstands torque application without deformation and outstanding wear resistance.
- Low slot friction for outstanding sliding mechanics.

* These images are showing the textured base as you look down through the bracket. All brackets are clear, as the profile of the last image shows, when bonded to the teeth.



Phoenix Crystal Clear Twin System

Maxillary	Torque	Angulation	Width mm	In/Out mm	ID	.018 Slot	.022 Slot
Central	17	4	3.35	.99	●	502-181UR/17 502-181UL/17	502-221UR/17 502-221UL/17
Central	11	5	3.35	.99	●	502-181UR/11 502-181UL/11	502-221UR/11 502-221UL/11
Lateral	10	8	2.97	1.25	●	502-182UR/10 502-182UL/10	502-222UR/10 502-222UL/10
Lateral	8	9	2.97	1.25	●	502-182UR/8 502-182UL/8	502-222UR/8 502-222UL/8
Cuspid HK	0	8	3.35	.99	●	502-183URHK/OT 502-183ULHK/OT	502-223URHK/OT 502-223ULHK/OT
Bicuspid HK	-7	0	3.35	.99	●	502-184,5URHK 502-184,5ULHK	502-224,5URHK 502-224,5ULHK

Mandibular	Torque	Angulation	Width mm	In/Out mm	ID	.018 Slot	.022 Slot
Anteriors	-6	0	2.87	1.40	● ●	502-181,2/-6	502-221,2/-6
Anteriors	0	0	2.87	1.40	● ●	502-181,2/0	502-221,2/0
Cuspid HK	0	3	3.35	.68	●	502-183LRHK/OT 502-183LLHK/OT	502-223LRHK/OT 502-223LLHK/OT
1st Bicuspid HK	-12	2	3.35	.76	●	502-184LRHK 502-184LLHK	502-224LRHK 502-224LLHK
2nd Bicuspid HK	-17	2	3.35	.76	●	502-185LRHK 502-185LLHK	502-225LRHK 502-225LLHK

5/Pkg.

Made in Austria.

Value Line Twin System



- Features a one-piece design with a bright labial surface and a fine grid pattern base. Bond strength replicates foil mesh, as bracket bases are micro etched.
- Torque in base with rhomboid shape and center scribe lines.
- Cuspids have hooks.
- All bicuspid are plain or have optional hooks.
- Metal injection molded for accurate tolerances and smooth, radiused, comfortable attachments.



Value Line Bondable Brackets & Tubes-Roth*

Maxillary	Color Code	Torque	Angulation	Width mm	.018 Slot	.022 Slot
Central	●	12	5	3.8	515-181UR 515-181UL	515-221UR 515-221UL
Lateral	●	8	9	3.0	515-182UR 515-182UL	515-222UR 515-222UL
Cuspid HK	●	-2	13	3.0	515-183URH 515-183ULH	515-223URH 515-223ULH
Bicuspid	●	-7	0	3.0	515-184,5U	515-224,5U
Bicuspid HK	●	-7	0	3.0	515-184,5URH 515-184,5ULH	515-224,5URH 515-224,5ULH

Mandibular	Color Code	Torque	Angulation	Width mm	.018 Slot	.022 Slot
Central/Lateral	●	0	0	2.5	515-181,2L	515-221,2L
Cuspid HK	●	-11	7	3.0	515-183LRH 515-183LLH	515-223LRH 515-223LLH
1st Bicuspid	○	-17	0	3.0	515-184L	515-224L
1st Bicuspid HK	○	-17	0	3.0	515-184LRH 515-184LLH	515-224LRH 515-224LLH
2nd Bicuspid	●	-22	0	3.0	515-185L	515-225L
2nd Bicuspid HK	●	-22	0	3.0	515-185LRH 515-185LLH	515-225LRH 515-225LLH

10/Pkg.

** The Phoenix version of the Roth Rx is not implied to be an exact version of any other system, nor do we claim any endorsement of Dr. Roth.*

Value Line Bondable Brackets & Tubes-MBT*



Maxillary	Color Code	Torque	Angulation	Width mm	.018 Slot	.022 Slot
Central	●	17	4	3.5	514-181UR 514-181UL	514-221UR 514-221UL
Lateral	●	8	9	2.9	514-182UR 514-182UL	514-222UR 514-222UL
Cuspid HK	●	-7	9	3.2	514-183URH 514-183ULH	514-223URH 514-223ULH
Bicuspid	●	-7	0	3.0	514-184,5U	514-224,5U
Bicuspid HK	●	-7	0	3.0	514-184,5URH 514-184,5ULH	514-224,5URH 514-224,5ULH

Mandibular	Color Code	Torque	Angulation	Width mm	.018 Slot	.022 Slot
Central/Lateral	●	-6	0	2.6	514-181,2L	514-221,2L
Cuspid HK	●	-6	3	3.2	514-183LRH 514-183LLH	514-223LRH 514-223LLH
1st Bicuspid	●	-12 -12	2 2	3.0 3.0	514-184LR 514-184LL	514-224LR 514-224LL
1st Bicuspid HK	●	-12	2	3.0	514-184LRH 514-184LLH	514-224LRH 514-224LLH
2nd Bicuspid	○	-17 -17	2 2	3.0 3.0	514-185LR 514-185LL	514-225LR 514-225LL
2nd Bicuspid HK	○	-17	2	3.0	514-185LRH 514-185LLH	514-225LRH 514-225LLH

10/Pkg.

* The Phoenix version of the McLaughlin, Bennett, Trevisi System is claimed to be a duplication of any other, nor do we imply that it is endorsed in any way by Drs. McLaughlin, Bennett, or Trevisi.