

# BUCCAL TUBES FOR BONDING AND WELDING



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# Optimal 2x Ultra Low Profile Bondable Buccal Tubes



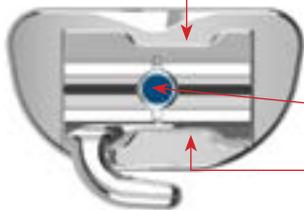
NEW OPTIMAL 2X ULTRA LOW PROFILE BUCCAL TUBES FOR FIRST AND SECOND MOLARS offer reduced occlusal interference, provide total control, and increase patient comfort. They complete the Optimal 2x bracket system and can be used to enhance treatment with any torque in base design bracket systems. Metal injection molded (MIM) for strength, accuracy and structural integrity.



Mesial distal scribe lines indicate the height of the arch slot. Recessed round center mark aids in seating the tube while increasing accurate alignment.

Parallel tube surfaces also aid positioning while increasing secure handling during bonding.

Anatomical compound contoured base with pronounced developmental groove for superior fit.



Ample recessed notches assist secure handling with all commonly used instruments.

Recessed round center mark aids in seating the tube while increasing accurate alignment.

Color coded by prescription specification.



Micro etched 80 gauge mesh for maximum bond strength.

Contoured funnel entry for ease of arch wire insertion at any angle.

Bendable hook does not extend beyond the facial plane of the tube body for greater comfort and does not interfere with bonding procedures.

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# Optimal 2x Ultra Low Profile Bondable Buccal Tubes

## OPTIMAL 2x ULTRA LOW PROFILE 1ST MOLARS

	Color Code	Torque	Distal Offset	Quadrant	Bondable .018	Bondable .022
<b>1st Molar</b> 4.2mm tube length 	●	-14	10	UR	800-861 B	800-261 B
	●	-14	10	UL	800-862 B	800-262 B
	●	-20	0	LR	800-857 B	800-257 B
	●	-20	0	LL	800-858 B	800-258 B
	●	0	0	UR/LL	—	800-263 B
	●	0	0	UL/LR	—	800-264 B
	●	-10	0	UR/LL	800-865 B	800-265 B
	●	-10	0	UL/LR	800-866 B	800-266 B

## OPTIMAL 2x ULTRA LOW PROFILE 2ND MOLARS

	Color Code	Torque	Distal Offset	Quadrant	Bondable .018	Bondable .022
<b>2nd Molar</b> 3.2mm tube length 	●	-14	10	UR	800-835 B	800-235 B
	●	-14	10	UL	800-836 B	800-236 B
	●	-20	0	LR/UL	800-867 B	800-267 B
	●	-20	0	LL/UR	800-868 B	800-268 B
	●	0	0	UR/LL	—	800-269 B
	●	0	0	UL/LR	—	800-270 B
	●	-10	0	UR/LL	800-855 B	800-255 B
	●	-10	0	UL/LR	800-856 B	800-256 B

10/Pkg.

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# Optimal 2x Bondable Convertible Low Profile Buccal Tubes



**Optimal 2x Convertible Low Profile Buccal Tubes** achieve stronger, more consistent bonds. Features a low profile design to reduce occlusal interference, provide greater patient comfort, and enhance hygiene.

Convertible caps are molded as an integral part of the tube. This solid one-piece construction provides a cap that converts easily and consistently. Eliminates any pre-mature conversion and any possibility of braze or solder material residue in the arch wire slot. Converts when you are ready by lift and peel with a Weingardt.



- Metal injection molded (MIM) stainless steel for strength, accuracy and structural integrity
- Full rotational control provided by the 4.2 mm length of tube
- Color coded by prescription and quadrant



- Funneled arch wire entry point for ease of wire insertion
- Torque in base for functional occlusion and finishing
- Adjustable low profile hook increases comfort



- 80 gauge micro etched bases increase bond shear strength by up to 35% compared to the same non-etched bases
- Compound contoured (6.6 mm x 3.0 mm) base
- Buccal indent naturally conforms to the molar surface, making positioning easier

		Color Code	Torque	Distal Offset	Quadrant	Bondable .018	Bondable .022
<b>Maxillary</b>	<b>1st Molar</b>	●	-14	10	UR	800-837 B	800-237 B
		●	-14	10	UL	800-838 B	800-238 B
<b>Mandibular</b>	<b>1st Molar</b>	○	-20	0	LR	800-845 B	800-245 B
		○	-20	0	LL	800-846 B	800-246 B
		●	-25	5	LR	800-821 B	800-221 B
		●	-25	5	LL	800-822 B	800-222 B

10/Pkg.

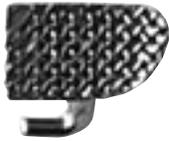
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# Optimal Mini 2nd Molar Buccal Tubes

## OPTIMAL MINI 2ND MOLARS



- Diagonal foil mesh for increased bond strength



- Funneled slot entry point for ease of arch wire insertion at any angle
- Recessed center of tube mark indicates slot height and aids in seating during bonding



- Small 2.5 mm tubes on curved 4.2 x 2.5 mm bases
- Adapted to fit on mesial buccal cusps of partially erupted molars

Mini 2nd Molar	Color Code	Torque	Distal Offset	Quadrant	Bondable .018	Bondable .022
Maxillary/Mandibular 2nd	●	-10	0	UL/LR	801-873 B	801-273 B
	●	-10	0	UR/LL	801-874 B	801-274 B
Maxillary/Mandibular 2nd	●	-25	0	LR/UL	801-871 B	801-271 B
	●	-25	0	LL/UR	801-872 B	801-272 B

10/Pkg. Bondable

# Mini Bondable 2nd Tubes – Low Friction Tubes – Bondable Auxiliaries



		Torque	Distal Offset	Quadrant	Bondable .018 Slot	Bondable .022 Slot
<b>Mini 2nd Molar – partially erupted</b>						
Maxillary/Mandibular 2nd		-10	0	UR/LL	817-831 B	817-231 B
Maxillary/Mandibular 2nd		-10	0	UL/LR	817-832 B	817-232 B
Mandibular 2nd		-25	0	LR	817-833 B	817-233 B
Mandibular 2nd		-25	0	LL	817-834 B	817-234 B

- 2.2 mm tube on a 3.5 mm contoured and mesially extended pad
- Recessed arch wire entry point

- Buccal divot to aid final positioning and seating
- Micro etched bases

10/Pkg.

Product	Description	Item #	Quantity
<b>Low Friction Tube</b>			



- 0.36 I.D. x 1.5 mm tube on a 4.0 x 2.5 mm base
- Assist slow erupting bicuspids
- Pull down high cuspids
- Lift angled second molars

497-T  
Curved Base

10/Pkg.

497-T-F  
Flat Base

10/Pkg.

## Extrusion Hook/Eyelet



- Placed gingivally on cuspids and use with .014 SE/NT to extrude
- Tie with thread

407

10/Pkg.

## Coil



- 3.6 mm flat base
- 3.0 mm tall loop perpendicular to base
- .050 I.D. loop diameter

513

10/Pkg.

## Extrusion Coil with Chain



- Extrude gingivally impacted cuspids
- Open mesh for good adhesive flow, 3.9 mm diameter
- 1" 10K gold chain accepts threads through .030.

408

1/Pkg.

## Habit Corrector (Tongue Spur)



- Bond to either arch
- Discourages mesial tongue activity
- Curved 80 gauge mesh base

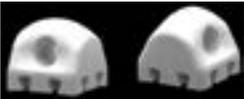
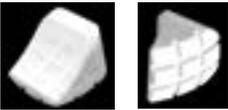
711-THC

10/Pkg.

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# Bondable Auxiliaries

Product	Description	Item #	Quantity
<b>Round Composite Button</b>			
	<ul style="list-style-type: none"> <li>• 3.3 mm fits where you need it</li> <li>• Comfortable – accepts 6 oz elastics</li> </ul>	504-RB	10/Pkg.
<b>Rectangular Composite Button</b>			
	<ul style="list-style-type: none"> <li>• 2.8 x 2.0 mm size</li> <li>• Accepts all elastics</li> </ul>	504-B	10/Pkg.
<b>Eyelet, Composite</b>			
	<ul style="list-style-type: none"> <li>• 2.75 mm with .033 I.D.</li> <li>• Bring down high cuspids with thread or 012/014 NT wire</li> <li>• Affect rotations</li> </ul>	504-E	10/Pkg.
<b>Bite Opening Composite Ramp</b>			
	<ul style="list-style-type: none"> <li>• 5 mm height opens bite immediately</li> <li>• More comfortable than S.S. and will not wear enamel</li> </ul>	710-BR	10/Pkg.
<b>Button, Ovoid Curved Mesh Base</b>			
	<ul style="list-style-type: none"> <li>• 4.3 x 2 mm fits molars and bicuspid</li> </ul>	490-OV	10/Pkg.
<b>Button, Rectangular Curved Base</b>			
	<ul style="list-style-type: none"> <li>• 4.0 x 2.6 mm fits molars and bicuspid</li> </ul>	490-C	20/Pkg.
<b>Button, Round Curved Base</b>			
	<ul style="list-style-type: none"> <li>• 3.9 mm</li> </ul>	491-C	10/Pkg.
<b>Button, Round</b>			
	<ul style="list-style-type: none"> <li>• 3.5 mm</li> </ul>	491	10/Pkg.

# Convertible Buccal Tubes – Torque in Base



	Torque	Distal Offset	Round Tube	Quadrant	Weldable		Bondable	
					.018 Slot	.022 Slot	.018 Slot	.022 Slot
<b>Maxillary 1st Molar</b>								
<b>Triple<sup>1</sup></b> <i>(Occlusal Headgear Tube)</i> <i>(.018x .025 auxiliary tube is 0 degree torque)</i> 	-10	8	.045	R	800-805	800-205		
	-10	8	.045	L	800-806	800-206		
	-14	10	.045	R	800-809	800-209		
	-14	10	.045	L	800-810	800-210		
<b>Combination<sup>2</sup></b> <i>(Occlusal Headgear Tube)</i> 	-10	8	.045	R	800-803	800-203		
	-10	8	.045	L	800-804	800-204		
	-14	10	.045	R	800-811	800-211		
	-14	10	.045	L	800-812	800-212		
<b>Combination<sup>1</sup></b> <i>(Gingival Headgear Tube)</i> 	-10	8	.045	R	800-801	800-201		
	-10	8	.045	L	800-802	800-202		
	-14	10	.045	R	800-827	800-227		
	-14	10	.045	L	800-828	800-228		
<b>Double Arch Slot<sup>1</sup></b> <i>(.018 x .025 auxiliary tube is 0 degree torque)</i> 	-10	8	0	R	800-817	800-217		
	-10	8	0	L	800-818	800-218		
<b>Single-Low Profile<sup>2</sup></b> 	-10	8	0	R	800-807	800-207		
	-10	8	0	L	800-808	800-208		
	-14	10	0	R	800-837	800-237	800-837 B	800-237 B
	-14	10	0	L	800-838	800-238	800-838 B	800-238 B
<b>Mandibular 1st Molar</b>								
<b>Single-Low Profile<sup>2</sup></b> 	-25	5	0	R	800-821	800-221		
	-25	5	0	L	800-822	800-222		
	-20	0	0	R	800-845	800-245	800-845 B	800-245 B
	-20	0	0	L	800-846	800-246	800-846 B	800-246 B
<b>Double<sup>1</sup></b> <i>(.018 x .025 auxiliary tube is 0 degree torque)</i> 	-25	5	0	R	800-823	800-223		
	-25	5	0	L	800-824	800-224		
	-20	0	0	R	800-825	800-225		
	-20	0	0	L	800-826	800-226		
<b>Lip Bumper<sup>1</sup></b> 	-25	5	.045	R	800-843	800-243		
	-25	5	.045	L	800-844	800-244		

<sup>1</sup> Tube is 3.5 mm long

<sup>2</sup> Tube is 4.2 mm long

**All bondable buccal tubes above are on this base.**

10/Pkg.



6.6 mm x 3.0 mm

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# Optimal 2x Ultra Low Profile Weldable Buccal Tubes

## 1st Molars

	Color Code	Torque	Distal Offset	Quadrant	Weldable .018	Weldable .022
<b>1st Molar</b> 4.2mm tube length 	●	-14	10	UR	800-861	800-261
	●	-14	10	UL	800-862	800-262
	●	-20	0	LR	800-857	800-257
	●	-20	0	LL	800-858	800-258
	●	-10	0	UR/LL	800-865	800-265
	●	-10	0	UL/LR	800-866	800-266

## 2nd Molars

	Color Code	Torque	Distal Offset	Quadrant	Weldable .018	Weldable .022
<b>2nd Molar</b> 3.2mm tube length 	●	-14	10	UR	800-835	800-235
	●	-14	10	UL	800-836	800-236
	●	-20	0	LR/UL	800-867	800-267
	●	-20	0	LL/UR	800-868	800-268
	●	-10	0	UR/LL	800-855	800-255
	●	-10	0	UL/LR	800-856	800-256

# “Original” Series – Anatomical Molar Bands



## Maxillary 1st & 2nd Molar Bands

- “Original” Series molar bands anatomically conform to the individual tooth.
- Available in 36 proportionally graduated sizes.
- A buccal/cusp indent eliminates occlusal interference.
- Permanent markings on the mesial surface clearly identifies the size and quadrant.
- All kits contain 1/2 right and 1/2 left.
- Micro etched inner surfaces increases adhesive strength.



Distribution of Sizes per Tooth																																						
Catalog No./Type	1	2	3	4	5	6	7	8	9	10	11	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		
K12-UP-TRIAL (80)	-	-	-	-	-	2	2	4	4	4	6	6	10	10	10	6	6	4	4	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
K12-UP-INTRO (158)	2	2	2	2	2	2	4	4	6	8	8	10	10	10	12	10	10	8	6	4	4	4	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
K12-UP-PRO (316)	4	4	4	4	4	4	8	8	12	16	16	20	20	20	24	20	20	16	12	8	8	8	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
K12-UP-MASTER (648)	8	8	8	8	8	8	16	16	24	32	32	40	40	40	48	40	40	32	24	16	16	16	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8

## Mandibular 1st Molar Bands

- “Original” Series molar bands anatomically conform to the individual tooth.
- Available in 36 proportionally graduated sizes.
- Two buccal/cusp indents and a lingual indent provide ideal conformity.
- Permanent markings on the mesial surface clearly identifies the size and quadrant.
- All kits contain 1/2 right and 1/2 left.
- Micro etched inner surfaces increases adhesive strength.



Distribution of Sizes per Tooth																																						
Catalog No./Type	1	2	3	4	5	6	7	8	9	10	11	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		
K12-LO-TRIAL (80)	-	-	-	-	-	2	2	4	4	4	6	6	10	10	10	6	6	4	4	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
K12-LO-INTRO (158)	2	2	2	2	2	2	4	4	6	8	8	10	10	10	12	10	10	8	6	4	4	4	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
K12-LO-PRO (316)	4	4	4	4	4	4	8	8	12	16	16	20	20	20	24	20	20	16	12	8	8	8	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
K12-LO-MASTER (648)	8	8	8	8	8	8	16	16	24	32	32	40	40	40	48	40	40	32	24	16	16	16	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8

## Mandibular 2nd Molar Bands

- “Original” Series molar bands anatomically conform to the individual tooth.
- Available in 36 proportionally graduated sizes.
- A lingual indent allows for a precise fit and eliminates occlusal interference.
- Permanent markings on the mesial surface clearly identifies the size and quadrant.
- All kits contain 1/2 right and 1/2 left.
- Micro etched inner surfaces increases adhesive strength.



Distribution of Sizes per Tooth																																						
Catalog No./Type	1	2	3	4	5	6	7	8	9	10	11	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		
K13-LO-TRIAL (80)	-	-	-	-	-	2	2	4	4	4	6	6	10	10	10	6	6	4	4	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
K13-LO-INTRO (158)	2	2	2	2	2	2	4	4	6	8	8	10	10	10	12	10	10	8	6	4	4	4	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
K13-LO-PRO (316)	4	4	4	4	4	4	8	8	12	16	16	20	20	20	24	20	20	16	12	8	8	8	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
K13-LO-MASTER (648)	8	8	8	8	8	8	16	16	24	32	32	40	40	40	48	40	40	32	24	16	16	16	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8

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# “M” Series – Anatomical Molar Bands

## Maxillary 1st & 2nd Molar Bands

- “M” Series molar bands anatomically conform to the individual tooth.
- Available in 30 proportionally graduated half sizes assures a custom fit.
- A buccal/cusp indent eliminates occlusal interference.
- Permanent markings on the mesial surface clearly identifies the size and quadrant.
- All kits contain 1/2 right and 1/2 left.
- Micro etched inner surfaces increases adhesive strength.



<i>Distribution of Sizes per Tooth</i>																														
<i>Catalog No./Type</i>	29½	30	30½	31	31½	32	32½	33	33½	34	34½	35	35½	36	36½	37	37½	38	38½	39	39½	40	40½	41	41½	42	42½	43	43½	44
<i>K10-UP-TRIAL (80)</i>	-	-	-	-	-	2	2	4	4	4	6	6	10	10	10	6	6	4	4	2	-	-	-	-	-	-	-	-	-	-
<i>K10-UP-INTRO (150)</i>	2	2	2	2	2	2	4	4	6	8	10	10	10	10	12	12	10	8	6	4	4	4	2	2	2	2	2	2	2	
<i>K10-UP-PRO (300)</i>	4	4	4	4	4	4	8	8	12	16	20	20	20	20	24	24	20	16	12	8	8	8	4	4	4	4	4	4	4	
<i>K10-UP-MASTER (600)</i>	8	8	8	8	8	8	16	16	24	32	40	40	40	40	48	48	40	32	24	16	16	16	8	8	8	8	8	8	8	

## Mandibular 1st Molar Bands

- “M” Series molar bands anatomically conform to the individual tooth.
- Available in 30 proportionally graduated half sizes assures a custom fit.
- Two buccal/cusp indents and a lingual indent provide ideal conformity.
- Permanent markings on the mesial surface clearly identifies the size and quadrant.
- All kits contain 1/2 right and 1/2 left.
- Micro etched inner surfaces increases adhesive strength.



<i>Distribution of Sizes per Tooth</i>																														
<i>Catalog No./Type</i>	29½	30	30½	31	31½	32	32½	33	33½	34	34½	35	35½	36	36½	37	37½	38	38½	39	39½	40	40½	41	41½	42	42½	43	43½	44
<i>K10-LO-TRIAL (80)</i>	-	-	-	-	-	2	2	4	4	4	6	6	10	10	10	6	6	4	4	2	-	-	-	-	-	-	-	-	-	
<i>K10-LO-INTRO (150)</i>	2	2	2	2	2	2	4	4	6	8	10	10	10	10	12	12	10	8	6	4	4	4	2	2	2	2	2	2	2	
<i>K10-LO-PRO (300)</i>	4	4	4	4	4	4	8	8	12	16	20	20	20	20	24	24	20	16	12	8	8	8	4	4	4	4	4	4	4	
<i>K10-LO-MASTER (600)</i>	8	8	8	8	8	8	16	16	24	32	40	40	40	40	48	48	40	32	24	16	16	16	8	8	8	8	8	8	8	

## Mandibular 2nd Molar Bands

- “M” Series molar bands anatomically conform to the individual tooth.
- Available in 27 proportionally graduated half sizes assures a custom fit.
- A lingual indent allows for a precise fit and eliminates occlusal interference.
- Permanent markings on the mesial surface clearly identifies the size and quadrant.
- All kits contain 1/2 right and 1/2 left.
- Micro etched inner surfaces increases adhesive strength.



<i>Distribution of Sizes per Tooth</i>																											
<i>Catalog No./Type</i>	29½	30	30½	31	31½	32	32½	33	33½	34	34½	35	35½	36	36½	37	37½	38	38½	39	39½	40	40½	41	41½	42	42½
<i>K11-LO-TRIAL (80)</i>	-	-	-	-	-	2	2	4	4	4	6	6	10	10	10	6	6	4	4	2	-	-	-	-	-	-	-
<i>K11-LO-INTRO (150)</i>	2	2	2	2	2	2	4	6	8	8	10	10	10	10	12	12	10	8	8	6	4	4	2	2	2	2	2
<i>K11-LO-PRO (300)</i>	4	4	4	4	6	8	8	8	12	14	16	18	20	24	24	24	20	18	16	12	10	6	6	6	4	4	4
<i>K11-LO-MASTER (600)</i>	8	8	8	8	12	16	18	22	26	32	40	40	48	48	48	40	36	30	24	20	16	12	12	12	8	8	8

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# Weldable Lingual Attachments



**Cleats** *Provided loose and tumbled to smooth corners.*

Product	Style	Length	Weldable	Pkg.
	Large	8.1 mm	829-025	1/Pkg.

**Buttons – Weldable** *The one piece design and domed head allows for maximum patient comfort.*

Product	Style	Weldable	Pkg.
	Semi-Flat	829-024	1/Pkg.

**Seating Lugs – Weldable – on strips**

Product	Style	Length	Weldable	Pkg.
	Universal	3.8 mm	829-028	1/Pkg.

**Sheath – Weldable**

Product	Style	Wire Size Doubled	Universal	Weldable	Pkg.
	Window w/indent	.036	U	829-029	1/Pkg.
	Window w/indent & ball hook mesial	.036	UR/LL	829-030	1/Pkg.
		.036	UL/LR	829-031	1/Pkg.

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