Attachments Reference Manual for the Dental Health Professional



Manuel de Référence pour le professionnel de la santé dentaire

dent-line of canada inc.

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Clinical Case Studies/Étude de cas cliniques









Figure 1

Figure 2

Figure 3

Figure 4

To our professional customers and colleagues:

This is the fifth edition of our attachments manual which profiles the very popular Bredent attachment systems. We are pleased to inform you that Dent-Line of Canada Inc. has been licensed to sell medical devices in Canada since 1998. We are also required by the Medical Device Regulations to have an Establishment License # 273 which allows us the right and privilege to sell the Bredent attachments nationally. Our company complies with Health Canada's Therapeutic Products Program Directorate and we currently have over twenty-five licenses.

Our goal is to provide a comprehensive manual which outlines our most commonly used attachments. In addition to this reference guide, we provide assistance in case planning and technical support for all dental health professionals.

Bredent attachments are manufactured in Germany and incorporate the latest Cad Cam screw and milling machines. All parts are manufactured to CE, EM 46001 medical device certification, GMBH and ISO 9001. Dent-Line also meets the terms laid out by the Canadian Medical Devices Conformity Assessment System (CMDCAS) with valid copies of certificates DIN EN ISO 13485:2003 in general and DIN EN ISO 13485:1996 for medical devices. As part of our corporate mandate we will endeavor to provide prompt customer service, superior technical assistance and quality components.

Should you require any additional information, I would be glad to assist you.

Yours sincerely,

Peter T. Pontsa, RDT President Dent-Line of Canada Inc.

Technical Assistance: For enquiries email us at *info@dent-line.com* Or call our support line at **1-800-250-5111**

Visit our web site at www.dent-line.com for:

Technical Procedures
 Products

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populaire système d'attachements Bredent. Nous avons le plaisir de vous informer que Dent-Line of Canada Inc. est agrée pour la vente de dispositifs médicaux au Canada depuis 1998. Les Réglementations sur

A nos clients praticiens et à nos collègues:

Voici la cinquième édition de notre catalogue qui présente le très

les Dispositifs Médicaux au Canada depuis 1998. Les Regiementations sur les Dispositifs Médicaux nous imposent également de posséder une Licence d'installation #273 qui nous donne le droit et le privilège de vendre les attachements Bredent à l'échelle nationale.Notre compagnie se conforme aux Directives du Programme des Produits Thérapeutiques de Santé Canada et nous avons plus de vingt-cinq certifications pour les instruments médicaux.

Notre objectif est de créer un catalogue exhaustif qui mette en valeur nos attachements les plus souvent utilisés. En plus de ce guide de référence, nous fournissons un support pour la planification des traitements et un support technique pour tous les professionnels dentaires.

Les attachements Bredent sont fabriqués en Allemagne, en utilisant les équipements CAO/FAO les plus récents en matière de vis et de fraisage. Toutes les pièces sont manufacturées en conformité avec les normes CE, EM 46001, GMBH et ISO 9001 pour la certification des dispositifs médicaux. Dent-Line rencontre aussi les normes établies par le Canadian Medical Devices Conformity Assessment System (CMDCAS) avec des copies conformes des certificats DIN EN ISO 13485:2003 en général et DIN EN ISO 13485:1996 pour les dispositifs médicaux. Nous nous engageons à fournir un service rapide aux clients, un support technique et des composants de haute qualité en conformité avec notre mission.

Si vous désirez des informations supplémentaires, il me fera plaisir de vous répondre.

Sincèrement vôtre,

heter / Herta

Peter T. Pontsa, RDT Président Dent-Line of Canada Inc.

Assistance technique: Pour information envoyez un courriel à *info@dent-line.com* Ou appeler notre aide en ligne à **1-800-250-5111**

> Consultez notre site internet www.dent-line.com pour :

- Protocoles techniques
- ✓ Produits
- ✓ Bulletins d'information

Figure 5

Figure 6

Our many thanks and appreciation go out to Dr. Izchak Barzilay for figures 1-2, Bredent for figures 3-4 and XP-Dent for figures 5-6. Tous nos remerciements et notre gratitude au Dr. Izchak Barzilay pour les figures 1-2, á Bredent pour les figures 3-4, et á XP-Dent pour 5-6.

VKS-OC-SG Stud Systems



- A distal extension attachment.
- Simple processing.
- Perfect substitute for unaesthetic clasps.
- Simple snap in by patient.

43002650-1.6x8x50mm Transfer Analogues

43002660-1.9x4x50mm 43005482-2.2mm

43002670-2.2x6x50mm 43006620-1.7mm

Wax Bars

info@dent-line.com page

Parallel Mandrel

36001130-2.2mm

43006770-1.7mm

Insertion Pin

43005480-2.2mm

43006210-1.7mm

VKS-OC-SG Exchangeable Stud Systems

Vario-Kugel-Snap vks-sg



Advantages:

- Precision fabricated titanium stud.
- Exchangeable stud extends restoration life.
- Compatible with two retention systems.
- Anchors with safe retention strength.

Vario-Kugel-Snap vks-oc



Auxiliary Modeling Element



Advantages:

- Precision fabricated titanium stud.
- Threaded titanium sleeve is glued into the restoration.
- Compatible with two retention systems.
- Can be used to retro-fit or to convert an existing restoration. (eg.implant bar).

Vario-Stud-Snap VKS-OC



OC Exchangeable Stud Introductory Kit

45000045-ø2.2mm

1 threaded sleeve, platinum-iridium, 45000053

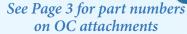
- 1 stud head screw, titanium, 45000047
- 1 screwdriver, short, 33000690
- 1 parallel mandrel, 36001130
- 1 fixation screw M 2, 45000048
- * optional HL Sleeve, 45000046

45000058-ø1.7mm

- 1 threaded sleeve, platinum-iridium, 45000055
- 1 stud head screw, titanium, 45000056
- 1 screwdriver, short, 33001164
- 1 parallel mandrel, 43006770
- 1 fixation screw M 1.6, 45000057
- * optional HL Sleeve, 45000054

**all items in kits are also sold separately*







Screw Driver 33000690-2.2mm 33001164-1.7mm Parallel Mandrel 36001130-2.2mm 43006770-1.7mm *Fixation Screw* M 2, 45000048-2.2mm M1.6, 45000057-1.7mm





Threaded Sleeve Titanium **45000076**-2.2mm **45000074**-1.7mm



DTK Adhesive 54000106 DTK Adhesive is used for metal to metal resin bonding



VKS-Exchangeable Studs

Vario-Stud-Snap VKS-SG

SG Exchangeable Stud Introductory Kit

45000049-ø2.2mm

- 1 threaded sleeve, platinum-iridium, 45000052
- 1 stud head screw, titanium, 45000047
- 1 screwdriver, short, 33000690
- 1 parallel mandrel, 36001130
- 1 fixation screw M 2, 45000048
- 3 vks-sg females (1 green, 1 yellow, 1 red)
- * optional HL Sleeve, 45000051

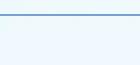
45000061-ø1.7mm

- 1 threaded sleeve, platinum-iridium, 45000060
- 1 stud head screw, titanium, 45000056
- 1 screwdriver, short, 33001164
- 1 parallel mandrel, 43006670
- 1 fixation screw M 1.6, 45000057
- 3 vks-sg females (1 green, 1 yellow, 1 red)
- * optional HL Sleeve, 45000059

*all items in kits are also sold separately



on SG attachments



43006770-1.

VKS Attachment Retention Level Chart

T7----WE OC 1 TZ 10

Vario Kugel SnapVKS-OC 1.7 mm					
	43006550 43006590 43006560 4300C104 supersnap 4300C105 supersnap	01 02 03 04 05	(4 pounds of retained force) (6 pounds of retained force) (8 pounds of retained force) (10 pounds of retained force) (12 pounds of retained force)	Green Yellow Red Light Green Light Yellow	
	430OC106 supersnap 430OC106 supersnap 430OC107 supersnap	06 07	(12 pounds of retained force) (14 pounds of retained force) (16 pounds of retained force)	Light Red Very Light Green	
Vario Kugel SnapVKS-OC 2.2 mm					
	43005440 43005450 43005460 4300C204 supersnap 4300C205 supersnap 4300C206 supersnap	01 02 03 04 05 06	(4 pounds of retained force) (6 pounds of retained force) (8 pounds of retained force) (10 pounds of retained force) (12 pounds of retained force) (14 pounds of retained force)	Green Yellow Red Light Green Light Yellow Light Red	
 Bredent recommends the following helpful hints to produce a successful long lasting prosthesis: 1. Attachment males must be cast in at least 270 Vickers Hardness to prevent premature wearing of the ball. 2. Never over-polish the male parts since this will hinder adequate retention. 3. For new cases always begin with the lowest retention level first, which is Green Level # 1. 4. Remind your patients not to "bite" their prosthesis in place, but insert with finger pressure. 5. Patients need to clean their prosthesis at least twice daily; studies have shown that premature wear can occur to the prosthesis if not cleaned regularly. 6. Patients must see their dental health practitioner at least every six months to check the accuracy of the fit of their prothesis, failing to do this will compromise the longevity of the case. 7. Should higher retention levels be needed, go up one level at a time to ensure patient comfort and ease of use. 					
Vario Kugel SnapVKS-SG 1.7 mm					
	43006680 43006660 43006640 430SG104 supersnap 430SG105 supersnap 430SG106 supersnap 430SG107 supersnap 430SG109 supersnap 430SG110 supersnap	02 03 04 05 06 07 09 10	 (6 pounds of retained force) (8 pounds of retained force) (10 pounds of retained force) (12 pounds of retained force) (14 pounds of retained force) (16 pounds of retained force) (20 pounds of retained force) (22 pounds of retained force) 	Green Yellow Red Light Green Light Yellow Light Red Very Light Green Very Light Red Lightest Green	
	Vario Ku	gel Sna	pVKS-SG 2.2 mm		
	43005410 43005420 43005430 4308G204 supersnap 4308G205 supersnap	01 02 03 04 05	(4 pounds of retained force) (6 pounds of retained force) (8 pounds of retained force) (10 pounds of retained force) (12 pounds of retained force)	Green Yellow Red Light Green Light Yellow	

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430SG208 supersnap

430SG209 supersnap

430SG210 supersnap

(18 pounds of retained force)

(20 pounds of retained force) (22 pounds of retained force)

08

09

10

Very Light Yellow

Very Light Red

Lightest Green

Additional VKS-OC-SG Mini Assortment Kits



43005350

43005360



Need to order our popular VKS System components in smaller quantities? These convenient assortment kits are now available in 2.2 mm and 1.7 mm!

B 43005350 VKS-OC-UNI 2.2. mm 10pc. Kit includes 2 each of green, yellow, red OC matrices, 2 blockout discs and 2 universal males B 43005520 Root Caps Kit 2.2 mm 12pc. Kit contains 2 each of green, yellow, red OC matrices, 2 blockout discs, 2 universal males and 2 metal housings. B 43005360 VKS-SG 2.2 mm 8 pc. Kit includes 2 each of green, yellow, red SG matrices, 2 SG males. B 43006720 VKS-OC-Uni 1.7 mm 10pc. Kit includes 2 each of green, yellow, red, 2 blockout discs and 2 uni males B 43006780 VKS-OC 1.7 mm 12 pc. Kit includes 2 each of green, yellow, red matrices, 2 blockout discs, 2 universal males and 2 metal housings. B 43006630 VKS-SG 1.7 mm 8 pc. Kit includes 2 each of green, yellow, red SG matrices, 2 SG males. Bar Systems VSS Bar System

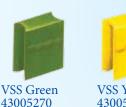
43006630

43006780

VSS Bar System



The VSS Bar System is perfect for free end saddles where clasps are not accepted and a passive fit is required to protect the abutment. It also can be used for splinting crowns or implants together.



VSS Yellow 43005260



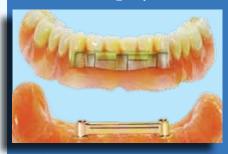


43006250

Duplicating Matrix Titanium Bar



Vario-Soft VSP Joint Snap System



Advantages:

- For implant over dentures.
- Splinting and stabilizing periodontally weakened teeth.
- Safe hold of denture on bar frame.
- Problem free adjustment of bar retention.
- **all items in kits are also sold separately*





Green 43006320

Yellow 43006350

43006370

Red



5600020

Insertion Pin 43006220

Parallel Mandrel 43006230

fax: 519.942.8150

VSP Bar

43006940

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info@dent-line.com
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VSP-GS

Joint Snap

Sliding and Interlock Systems



phone: 1.800.250.5111

info@dent-line.com page

Screw Locking Systems



Titanium Screw:

33000700, 1 piece

Titanium Screw:

33001160, 1 piece

3300K700, 1 piece

330K1160, 1 piece 330K1161, 10 pieces

3300K710, 10 pieces

33001161, 10 pieces

33000710, 10 pieces

1,4 x 0.3, head length 2.5 mm

1,6 x 0.35, head length 2.5 mm

Titanium Screw Extended Head: 1,4 x 0.3, head length 3.5 mm

Titanium Screw Extended Head:

1,6 x 0.35, head length 3.5 mm



Advantages: • Ideal for bridge sectioning & custom fabrication of screwed retainers.

• Two different sizes are used for a wide range of applications, with implants & bridges.

Titanium screws engage into the secondary unit to hold them securely in place.

Zirconium Set available in 1.4 mm



Security Lock System

Matrix Sleeve with Fixing Screw





Screwdriver, Long 33000812

Screwdriver, **Right Angle** 33000813

Screw Systems for Retrievability

Diatit Tool Kit Assortment 33000600-1.4mm or 33000016-1.6mm Each Kit contains: Multiple Drill Taps 2 Titanium Screws

Zirconium Set 33024324 - 1.4 mm Kit contains on each of: Diatit-Multidrill, 1.4 Tungsten Facing Cutter, Positioning Pin

> **Custom Screw** Connections Kit, 43007351

> > Titanium Screw, 33000700



Screwdriver. short 33000690



Fixation Screw 36001030

Tapped Bush, HL 33000811

phone: 1.800.250.5111 8 page

Pick-up Attachments with Qu-Resin.





- Pick up Attachments
- \checkmark Repair Dentures in Lab or Chairside
- \checkmark verification of Splints.
- ✓ Utilize for open tray pick-up on implants.
- Available in pink or dentin colour.

Pick-Up Attachments Intraorally or Repair Dentures in Minutes with Bredent's New Qu-Resin and Qu-Connector - Chairside Or In- Laboratory!

Qu-Resin has been developed for use as a denture repair resin and can achieve perfect bonding between the denture base and high impact acrylics or acrylic teeth using the coupling agent called Qu-Connector. This quick setting selfcuring, two component denture repair resin system on a diacrylate and sets in 3 minutes. Repairs can be done chairside by the Dental Health Practioner or by the Dental Technologist in the Laboratory. Use Qu-Base with Qu-Resin to create temporary dentures quickly and economically.

Kits are availale in pink or dentin (tooth) colours and contain: 1 x 50 ml cartridge, 12 mixing cannulas and 1 x 10 ml bottle of QU-Connector.*Parts are also available indvidually.

Resin Isolator, 750 ml.

54001161	Qu-resin pink kit,
54001162	Qu-resin dentin kit
54001163	Qu-Connector, 10 ml
54001165	Qu-resin pink, 50 ml
54001166	Qu-resin dentin,50 ml
32000450	Mixing Cannulas,12pk
32000440	Dosing Device, ea.
54001171	14 plates (7 upper & lower plates)
54001172	14 upper plates
54001173	14 lower plates
54001019	Isoplast, Plaster against Resin Isol



Locking Pin E **Locking Pin E** Locking Pin E Modeling Pin in Acrylic for CR-CO 44000656 Locking Pin E 44000658 Accessories (from left to right) Designed to prevent lift-off. HM centre drill 33000660 Provides positive security & resistance Diatit multidrill 33000730 to dislodgement. Locking Pins Snap E Kit Milling & Drilling oil 5500008 • Incorporates a snap in & out position. 44000652 Wax bars wstg. 43002650 Locking Pin is made of titanium. 2 Locking Pins E DTK adhesive 54000106 Applications include resilient & solid functions 2 Modeling Pins (shown below) on implant bar dentures. Stud Fixator



- Minimal space plunger type attachment.
- The dimple is ceramic for durable wear.
- Hygiene-friendly since the housing is filled with silicone.
- The silicone buffer ensures soft integration.



DTK Adhesive 54000106 DTK Adhesive is used for metal to metal resin bonding

Stud Fixator



Stud Fixator 44002651 2 pieces

Friction Fit System

Friction Fit System









FGP in implantology Advantages:

- Friction can be re-established quickly.
- Can be used directly in the dental practice.
- Can be processed in the mouth.
- Maximum comfort of wear for the patient. ٠

Assortment FGP Friction Fit System 54001028

- 1 x 2.5g friction resin component A
- 1 x 2.5g friction resin component B
- 1 x 1.25ml FGP bonding agent
- 1 x 1.30ml FGP insulating agent
- 1 spatula
- 5 brushes
- 1 brush holder & 1 mixing block
- * Accessories and refill packs are available separately.



VKS Stud Reworking Set Repair worn VKS stud attachments



Advantages:

- Cost effective method for replacing worn VKS studs
- Avoids risk of damage to the root abutment tooth by repairing the existing prosthesis
- At chair side, the worn VKS stud is milled to a cylindrical post over which a new titanium ball can be placed
- Implant bars can be repaired by the technician

Remember: Can only be used on gold alloys



Additional Products

VKS Reworking Kit 86000190-2.2mm 86000180-1.7mm 2 repair burs 2 stud sleeves 2 height stops

Height Stop 86000130-2.2mm 86000120-1.7mm

Stud Sleeves 86000140-2.2mm 86000160-1.7mm

FGP

Repair Bur 86000110-2.2mm 86000100-1.7mm



Tap for External Thread 86000170-2.2mm 86000150-1.7mm

Spacer Discs 86000210-2.2mm 86000200-1.7mm

These brochures are available free of charge! 000040GB This easy to understand patient brochure provides detailed explanations on the subject of combined dentures. The patient learns why tooth gaps should not be left untreated over extended periods of time and the differences between clasps and attachment-based dentures. Also covered are the benefits of attachments such as improved aesthetics, durability, preservation of residual teeth and improved biocompatibility by reducing the amount of different alloys used.

Need Technical Assistance?

Call our Technical Director, Peter T. Pontsa, RDT or email your questions and / or digital pictures to peter.t.pontsa@bellnet.ca or phone us at 1-800-250-5111.

Visit our website at www.dent-line.com for a review of technical cases, product up dates and our newsletter, the Dent-Liner.



- 2 spacer discs
- 1 tap for external thread

Accessories



Accessories



Breformance Cold Cure Acrylic 54001095

This material is ideal for temporary crowns and partial dentures. It is available in 6 Vita[®] shades A2, A3, A3.5, B3, C2, D3



UV Tray Material **54000166**

The tray material comes in an economical roll, is extremely strong and will not distort.



Regular Diamond Polishing Paste: **54000140** /5 *grams New Zi-Polish Diamond Paste:* **36010025** / **5 grams** *is especially designed to polish Zirconium. Felts:* **35000710** /100 *pieces*

The special consistency of the diamond polishing paste enables it to diffuse into the felt and polish for up to five times longer. This paste is ideal for polishing porcelain after adjustments.



Diacryl Diamond Grinding Tools Assortment **34001070**

Diacryl diamond tools are perfectly suited to finish acrylic dentures and tray material in a quick and efficient manner. Available individually.



CompoForm UV, 2 x 3 ml. syringes with 10 application cannulas 54001150

This light curing composite is used for modelling, fixation of separated bridges and for quick fabrication of post and core restorations. Used in conjunction with modelling wax, it is very suitable for interlocking the model prior to investing. It has minimal shrinkage and burns out without residue ensuring top quality and precise casting results.



Abraso Gum Acrylic Kit

35000992

For efficient chairside adjustment of denture acrylics carbides for adjustments plus rubber points for low to high lustre polishing and finishing. Carbide and rubber points are also available separately.



Universal Screwdriver Set

31000012

Information concerning 98% of the implant screws on the market is displayed on the lid of the assortment kit enabling easy selection of the screw driver needed and the torque required to tighten the screw. The universal ratchet and both long and short screw drivers are available individually. Some applications are; Strauman, Syn-Octa, Sulzer Calcitec, Nobel Biocare and Steri-OSS.

Colloidal Graphite **54000706**

Used for Premature contact film and as an antiflux agent.