Profin IPR tips overcome obstacles in interproximal reduction techniques

Unlike rotary instruments, the safe-sided tips will not affect adjacent surfaces

The Dentatus Profin Directional System is a safe, reciprocating handpiece essential to any discipline in dentistry, now more than ever in orthodontics. Profin IPR overcomes obstacles that exist with traditional interproximal reduction techniques, because often there is potential for reduction to be over- or under-performed. Profin IPR diminishes the risk of excessive stripping, ensuring more conservative removal of enamel in prescribed amounts. It also eliminates damage to gingival tissue.

More durable orthodontic treatment

With Profin IPR, dentists can correct disproportionate tooth sizes, eliminate crowding, preserve enamel and increase the durability of orthodontic treatment. Unlike rotary instruments that may ditch enamel or damage underlying tissues, Profin tips are safe-sided and will not affect adjacent surfaces. They are gauged to prescribed amounts of reduction in five sizes, from 0.25 to 0.5 mm. According to the company, Profin is an extraordinary system for professionally shaping and finishing embrasures, contacts, overhangs and incisal edges. Companion Lamineer Tips are autoclavable, designed for multislide and available in 30 shapes, sizes, and grits.

To learn more, you can visit Dentatus in booth No. 1714 in the exhibit hall at the Greater New York Dental Meeting. You also can contact Dentatus at (800) 323-3136 or visit the company online at www.dentatusUSA.com.

(Source: Dentatus)

Smallest dimensional attachment also provides high stability

Rhein’83 OT Equator has reduced vertical profile of 2.1 mm and diameter of 4.4 mm

Rhein’83, a global producer of precision attachments on removable prosthesis, describes its OT Equator as the smallest dimensional attachment system on the market. It has a reduced vertical profile of 2.1 mm and diameter of 4.4 mm (metal housing included). It is compatible with any implant brand.

Superior stability

Because of its shape, Equator provides superior stability when compared with traditional attachments, according to the company. It corrects divergence of up to 25 degrees, the company reports. Functionality is guaranteed by coupling of attachment and cap.

Caps are available in four colors, based on levels of retention — from a minimum of 0.6 kg to a maximum of 2.7 kg.

Caps should always be used with metal housing.

Learn more

To learn more about OT Equator, you can contact the company by email at info@rhein83usa.it or by telephone at (877) 778-8383.

You can visit the company online at www.rhein83usa.com to learn more about all of its products and services, including the OT Equator.

(Source: Rhein’83)

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You can visit the company online at www.rhein83usa.com to learn more about all of its products and services, including the OT Equator.

(Source: Rhein’83)
NEW! Visalys® Core –
Secure core build-up for high stability.

Visalys® Core is a fluoride-containing, dual-curing composite, developed for the fabrication of radiopaque core build-ups and core fillings and for cementing root posts. The product incorporates Active-Connect-Technology (ACT), which is unique in the market. This enables the material to bond actively with popularly used light-curing and dual-curing, single-step and multi-step adhesives, without an additional activator. The advantage for users is that it allows them to use the bonding agent they are used to – no matter whether it is a light-curing or dual-curing, a single- or multi-bottle system. Call 877-532-2123 direct to place an order.

www.kettenbachusa.com

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86A Avenger splash hood: Safety hazard intervention at low cost

By Handler Manufacturing Co. Staff

The Handler Manufacturing Co. has released the 86AAvenger, an innovation for the dental lab designed to help contain contaminants during various polishing and grinding applications.

Both OSHA and OSHA standards require the use of a splash-hood device with protection from splashing to contain contaminants when polishing and grinding in the lab environment. In addition to creating a safety hazard, noncompliance could lead to a fine stemming from an OSHA inspection.

New level of safety and cleanliness

According to the company, Handler revolutionized polishing applications with Red Wing lathes, polishing units and splash hoods. Handler aluminum and resin splash hoods are used in more offices and dental labs than any other containment device when polishing or grinding.

Now, according to the company, the 86A Avenger takes the application to a new level of safety and cleanliness. The company describes the 86A Avenger as being a low-cost way to contain hazardous contaminants when polishing or grinding using a Red Wing Lathe or handpiece.

Features and benefits

- OSHA and OSHA compliant
- Resin material with no hardware, fixture or attachments makes it easy and efficient to clean and disinfect after every application
- Space-saving design is ergonomic for all grinding and polishing applications in the lab
- Clear acrylic shield is coated so it is scratch resistant for longer life
- Ergonomic design for easy viewing of application
- Surround construction maximizes containment of dusts and hazardous contaminants
- Manufactured of sturdy resin material for longer lasting use
- Low-cost solution to keeping the workplace and air cleaner and safer

Visit Handler in booth No. 1101 in the exhibit hall at the Greater New York Dental Meeting. To contact Handler by email at ricklund@handlermfg.com or at (800) 274-2653, visit Handler online at www.handlermfg.com.

Silence snoring with ‘NIGHTLASE’ and cutting-edge laser esthetic applications

Fotona Lightwalker dual-wavelength laser offers less-invasive treatment option

By Harvey S. Shiffman, DDS

Of the commercially available hard- and soft-tissue lasers, the Fotona Lightwalker dual laser wavelengths of Nd:YAG and Er:YAG have high efficiency and ability for almost unlimited pulse control, and the following procedures have been developed to take advantage of these attributes. Along with this increased level of performance comes significant patient comfort.

Snoring affects millions

Snoring affects millions of Americans, and of those approximately 67 percent may have some type of significant sleep disorder. Dentists are in a great position to help screen and in many cases treat these problems with airway management. Helping patients improve their sleep can profoundly improve their health, their quality of life and the well-being of their loved ones. The “Gold Standard” for the treatment of sleep-disordered breathing is the CPAP-type device. Following that in 1981 was the introduction of Mandibular Advancement Devices (MAD). Compliance with both of these treatment modalities shows a reduction in time and of significant side effects. However, NIGHTLASE™ snoring reduction therapy protocol is a unique approach to treatment using the Fotona Lightwalker dental laser with a proprietary protocol and handpiece.

NIGHTLASE uses the photothermal capabilities of the Lightwalker laser to convert and initiate the formation of new and more elastic collagen. The target mucosal tissues are the oropharynx, soft palate and uvula. The proprietary pulse characteristics create non-ablative heat generation that initiates the conversion of existing collagen to more elastic and organized forms and also initiates “neocollagenesis,” the creation of new collagen.

This process results in a visible elevation of the soft palate and uvula and tightening of the oropharyngeal tissues, resulting in an improvement in the upper airway volume. The results can be seen in Figure 1.

Fig 1: The NIGHTLASE snoring reduction therapy protocol, which uses the Fotona Lightwalker dual wavelength laser, results in a visible elevation of the soft palate and uvula and a tightening of the oropharyngeal tissues. That, in turn, results in an improvement in the upper airway volume. Photo/Provided by Dr. Harvey S. Shiffman

Fig 1

Alternative to, or co-therapy with, appliance or CPAP device

NIGHTLASE therapy is indicated for cases when the patient has been diagnosed with chronic snoring, UARS or mild to moderate sleep apnea and either cannot or chooses not to wear an appliance or CPAP device. It can also be used in co-therapy with those devices and represents a less-invasive alternative to current surgical, chemical or radiosurgical options that may require hospitalization, general anesthesia or soft-tissue mutilation.

NIGHTLASE has an extremely high success rate in producing a positive change in sleep patterns.

Research has shown that it can reduce and attenuate snoring and provides an effective non-invasive modality to lessen the effects of obstructive sleep apnea.

Not permanent, but easy touch up

NIGHTLASE therapy is not a permanent alteration. It lasts anywhere from six to 12 months, however, according to the company, it can be easily touched.

- NIGHTLASE, page A10
Hyperion X5: aerogonomics

The world’s smallest wall-mounted panoramic imager.

HYPERION X5 has the distinction of being the smallest pan unit ever available in the market. With an ultra-simple user interface, the X5 achieves up to 15 high-definition 2D projections in just a few simple steps. Installation is astonishingly quick, with minimal time and cost.

The X5’s automatic focusing and Morphology Recognition Technology (MRT) eliminates the need to manually set exposure parameters and patient jaw size, achieving precise positioning every time, while guarding against under- or overexposure.

Thanks to the iRYS image management software that’s included with every MyRay device, Hyperion X5 can share its images with all of a practice’s PCs. No other imaging option streamlines workflow more.

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MyRay: New products coming to U.S.

MyRay Hyperion X5 is smallest pan unit ever; C-U2 intraoral camera has innovative HD sensor

By Cefla Medical Solutions Staff

In addition to making history as the first-ever, wall-mounted panoramic imaging system, the MyRay Hyperion X5 has the distinction of being the smallest pan unit ever available, which enables it to be installed in virtually every practice, according to the company.

With a unique single-user interface, the X5 achieves up to 15 high-definition 2-D projections, including multi-layer panoramic, bitemax and quick-pan modes in just a few simple steps. Installation is quick, with minimal time and cost, according to the company.

The X5’s automatic focusing and Morphology Recognition Technology (MRT) eliminates the need to manually set exposure parameters and patient jaw size. This achieves precise positioning each and every time, while guarding against under- or over-exposure.

The unit’s high signal-to-noise ratio clarifies clinical details, and the broad focal layer ensures quality images in every circumstance. Thanks to the iRYS image management software that’s included with every MyRay device, Hyperion X5 can share its images with all of a practice’s PCs. No other imaging option streamlines workflow more, according to the company.

C-U2 intraoral high-definition camera

The C-U2 intraoral high-definition camera has ushered in a new era in patient communication with clear, high-contrast, real-time images, plus footage that showcases the esthetics of a smile or a single tooth with maximum high resolution, according to the company.

Thanks to the f/8 lens and innovative HD sensor, 16-g aspect ratio and 1280-resolution images are achieved and benefit from homogeneous light and natural colors under all circumstances.

The progressive-scan digital video system is incorporated into a nimble and precise handpiece for complete flexibility and perfect image capture. It connects via USB to both Windows and Mac operating systems to provide automatic on/off, live video and still images. A multifunction button and automatic focus-free adjustments make it easier than ever to view, browse, enlarge and save. Use of MyRay’s iRYS software platform makes it possible to take the X5 f/8 handpiece to the next level of customer engagement, profitability and ROI.

At the Chicago Dental Society meeting, Sirona is hosting a SIROWORLD Superheroes of Dentistry party on Friday, Feb. 26, at the House of Blues. Attendees are encouraged to dress in their best superhero costume.

• A special SIROWORLD event is also planned during the California Dental Association meeting in May. More details, including location, special celebrity speaker, date and time, will be announced at the SIROWORLD kick-off celebration in New York City.

We are excited to launch these SIROWORLD events and continue our long-standing tradition of delivering world-class education and outstanding entertainment to the dental community,” said Augins. “Having several events planned for August 2016 will showcase the best of SIROWORLD on a national stage. Certainly, all participating dental professionals will be enriched as a result attending these celebrations.”

Pricing for SIROWORLD is now available at $19,995 a year for a membership and $2,995 a year for VIP membership and includes entrance into all of the celebration events planned at the trade shows and the annual event in Orlando. Total Office membership packages are currently available for $5,995, for a total savings of $4,000 off list price, and include SIROWORLD membership for up to six people. For further details on SIROWORLD membership and information, please visit www.SIROWORLD.com or contact your Patterson representative.

About Sirona Dental

Sirona has served dealers and dentists worldwide for more than 130 years. Sirona develops, manufactures and markets a complete line of dental products, including CAD/CAM restoration systems (CEREC®), digital intraoral, panoramic and 3-D imaging systems, dental treatment centers and handpieces. Visit www.sironasad.com for more information about Sirona and its products.
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- **550 Porta-Vac**
  Bench-top Dust Collector.

- **NEW! 62-ICC**
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- **NEW! 550A**
  Under Bench Porta-Vac Dust Collector with HEPA filter and foot switch control.

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Kettenbach presents Visalys Core, new generation of core build-up material

Visalys® Core, the new product from Kettenbach LP (www.kettenbachusa.com), represents the next generation of core build-up materials, according to the company. The most recent addition to the Visalys family is a dual-curing core build-up material with unique Active-Connect Technology (ACT) to ensure a reliable bond with all common adhesives — without an additional activator. The product was unveiled at this year’s International Dental Show (IDS) in Germany. Visalys Core is the first core build-up material from Kettenbach. The fluoride-containing, dual-curing composite was developed for the fabrication of radiopaque core buildups and core fillings and for cementing root posts.

According to the company, the Active-Connect Technology, unique in the market, enables the material to bond actively with all common light-curing and dual-curing, single-step and multistep adhesives, without an additional activator. The advantage for users is that it enables them to use the bonding agent they are used to — whether it is light-curing or dual-curing — or a single- or multi-bottle system.

According to the company, the technology simply provides a firm foundation — stable and precise. The company reports that Visalys Core ensures easy and reliable handling with “excellent positional stability.” At the same time, it exhibits good flowability and low extrusion force. The compressive strength results in a stable monoblock and a secure bond.

Optional light-curing allows the procedure to be continued immediately. Reliable self-curing provides for dependable strength even on the cavity floor and in root canals. Excellent polishing characteristics ensure precise preparation; even without light-curing, the smear layer is minimal. The product is also free of Bisphenol A and its derivatives.

Visalys Core is available in dentin and white shades in a 5 ml double syringe and in a 25 ml cartridge.

For detailed information about Visalys Core, visit the Kettenbach website at www.kettenbachusa.com.

About Kettenbach
Kettenbach (Huntington Beach, Calif.) is the exclusive U.S. distributor for Kettenbach GmbH & Co. KG (Eschenburg, Germany). Founded by August Kettenbach in 1944, Kettenbach GmbH was created for the development and marketing of dental impression materials and is also known in other surgical areas of medicine. Brands include Panasil VPS Impression Material, Identium V3XE Impression Material, Futar Bite Material, Silginat Alternative Alginate, Visalys Temp Material, Mucopren Resilient Liner and Visalys Veneers.

For more information about Kettenbach LP products, you can call (877) 532-2123 or visit www.kettenbachusa.com.

(Source: Kettenbach)

Visalys Core bonds actively with every adhesive. Photo/Provided by Kettenbach
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Fotona
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Ed Matthews appointed VP of sales at TAUB Products

VOCO recently introduced Futurabond M+, a universal single-bottle adhesive. Futurabond M+ versatility enables it to be used in self-, selective- or total-etch mode without any additional primers on virtually all substrates. Futurabond M+ achieves total-etch bond strength levels with all light-, self- and dual-cure resin-based composites, cements and core buildup materials. With a dual-cured activator Futurabond M+ will self-cure without any light activation, which, according to the company, offers a big advantage for endodontic applications such as post cementation where it avoids the poising effect, a problem with light-cured adhesives. Futurabond M+ also adheres well to metal, zirconia and ceramic, making extra primers unnecessary.

Futurabond M+ needs only one coat and takes 35 seconds from start to finish. Its low film thickness of 9 microns makes bonding margins invisible (no “halo” effect) and prevents pooling problems. It does not need to be refrigerated. Benefits include its indication as a decontaminizer for use under amalgam restorations or on hypersensitive tooth necks as a protective varnish for glass ionomers and an intraoral repair of ceramic restorations. Learn more about Futurabond M+ at www.voco.com.

(source: VOCO)

TAUB Products, a manufacturer of dental consumable products, has named Ed Matthews vice president of sales. Matthews will assume sales responsibility for all of TAUB’s new and existing dental products. The industry veteran has more than 15 years of dental sales and marketing experience. "We are very pleased to have Ed as an important part of our executive team," said Jordan Taub, TAUB’s executive vice president. "His dental industry contacts will pay immediate dividends for us." Matthews is also the owner of Sure Business Logic, a creative dental sales services company. "I am pleased to join the TAUB organization in this capacity," Matthews said. "I am looking to make their sales programs as successful as possible."

TAUB will be at the Greater New York Dental Meeting in booth No. 2708. Matthews will be there to meet customers and discuss TAUB’s newest product, Zero-G Bio Implant Cement and Liquid Magic. TAUB is known for innovative, high-quality solutions for dental professionals. Learn more by calling (800) 828-2634 or visiting www.taubdentalt.com.

(source: TAUB Products)

New options for non-vital teeth: Colibri

By Stefan Koubi, DDS, PhD
Founder, l’institut de la facette

Introduction
Cemented corono-radicular restorations (CCRR) using fiber posts are now recognized as an excellent alternative to restorations using cast or prefabricated metal posts. Their success is directly linked to the advantages of what many refer to as “adhesive” dentistry, which is biologically compatible, causes less mutilation and permits rehabilitations of high esthetic quality.

The success of this type of restoration is subject to a specific and stringent methodology and is also linked to understanding a new approach that is very different from the mechanistic dogmas prevailing in the manufacture of inlay cores.

Additionally, use of corono-radicular restorations requires a profound knowledge of pulpless teeth and the amount of partially cemented restorations, which is a new treatment for pulpless teeth. For this first option the key factor will be a proper and accurate injection of core buildup resin in the root anatomy to get perfect homogeneity. Hence other options can be suggested to reconstruct anatomy if rubber dam or good bonding procedures cannot be used (indirect technique). In these cases, making an accurate impression of the root anatomy and careful margin for the final crown and then cementing a post can be a challenge.

Indications
At present, there are an array of corono-radicular reconstruction techniques. For many years, the two most commonly used standards were materials wound around a prefabricated post and sealed metal inlay-core (Fig. 1).

Given the advent of “adhesive” dentistry, the practitioner must approach reconstruction choices according to the clinical situation and his/her own expertise. However, whatever the reconstruction technique employed, it must meet three objectives: 1) retention of corono-radicular restoration, 2) reinforcement of corono-radicular cohesion, and 3) assurance of tooth durability on the arch, in biological and structural terms.

Direct technique for core buildup
Principle of core buildup
The first guiding idea behind this method is to substitute corono-radicular — and above all — excessively rigid posts with epoxy resin-coated quartz or carbon fiber posts. This stable mechanical material combines remarkable mechanical strength, even greater in certain aspects than alloys, with a lower modulus of elasticity, which reduces stress on the residual structures.

The second idea is to associate specific composite resins with these posts, whose visco-elastic properties provide the uncontroversial advantages of adhesive techniques, ensuring the sealing of the interfaces and retention.

The ultimate objective of homogeneous reconstituted structure with high overall strength can be achieved by using a Colibri (Sulzer Mixpac AG) mixing tip.

However, to get the most out of this sequence, certain major points relating to the on the final restoration quality should be emphasized:

• Biomechanical considerations (favor the passive post principle over that of the adjusted post)
• Biological considerations (capital impact of cementing and the composite resin in these reconstructions)
• Exothetical considerations (taking into account the light phenomena in terms of materials used).

Clinical procedures
Operating area: A set of suitable clamps and an elastic, thin — and above all — strong dam is an essential prerequisite for any adhesive technique.

Chamber preparation. With altered tissues and filling residue eliminated from the crown portion, using a series of gates-glidden and large drills of increasing diameter eliminates most of the endodontic filling material and roughly prepares the root chamber. The length of the chamber must be adapted to the anatomy of the tooth in question, while taking into account the additional retention provided by the reconstruction cementing, which reduces its depth within limits well below the root two-thirds recommended for metal posts. It must be equal to the height of the future crown stump (8 to 10 mm). The chamber diameter does not exceed that of No. 3 large drill or very occasionally No. 4. This result in less mutilation and more saved tissue.

To optimize the quality of surfaces before cementing, the root walls are cleaned using a long-necked ball burr with diameters supplemented by ultrasound with suitable inserts. The number of posts used on multirooted teeth is intimately linked to:

• See COLIBRI, page A16
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COLIBRI, page A14
to the degree of deterioration and size of the residual walls. Hence the number of posts will be increased (up to three) if there are no longer any existing walls, to improve mechanical retention of the reconstruction composite.

Adhesive procedures and post cementing. The adhesive system selected must be dual- or chemical-cure and have a specific micro-applicator to obtain a high-quality hybrid layer. The composite resin, the second component of the system, must fill the spaces and coat the post for the purposes of damping and distributing the forces applied to it, by virtue of a modulus of elasticity similar to that of dentin. Finally, thanks to its capacities to bond with the adhesive, it contributes to the cohesion of the assembly.

The Colibri is placed into the root until gutta-percha contact and composite resin injection starts from the root to the coronal part. The composite resin is injected into the chamber to fill it completely, without a risk of leaving empty spaces (Fig. 2). It is important to note that coronary reconstruction is carried out at the same time with the same material to obtain a homogeneous assembly (Fig. 3) and avoid proliferation of interfaces (between the coronary reconstruction composite and the radicular composite) causing weakening of the assembly.

If walls are insufficient to box the material, a core form is used (after adjustment with scissors on the limits) to obtain homogeneity on the material thanks to the pressure exerted when it is placed (absence of air bubbles). When the use of a core form is needed, it is more efficient to also perform fiber post reconstruction and preparation for the crown directly after the setting time of the resin, all during the same appointment. Impression of the sclerotic area is important for accuracy of the cast and for the final crown.

The specific micro-instrumentation required to perform these restorations is also a key to success. Colibri mixing tips have the advantage of being universal for all types of canals and being designed as a single piece to improve the duration and quality of application.

Cemented coronary-radicular reconstructions present numerous advantages:
- Ensure greater compliance with the root dentin through tissue saving and decreased failures due to heterogenous distribution of forces applied.
- Reduce the risks of fractures and the effects of corrosion.
- Recreate the tooth chromatic core, thereby enabling pure ceramic prosthesis devices, allowing circulation of light.

Colibri in posterior area with core buildup and anterior area with cementation and core buildup. In addition, use of micro-instrumentation adapted individually to the anatomical specificity of the root is another key to success.

Colibri for indirect technique: impression of the root anatomy and cementation of the post. If the coronal destruction is too important (less than two walls, depth of cavity, margin in subgingiva area) the use of fiber post is non indicated because of the adhesive capability and the placement of rubber dam. Then the use of indirect technique like inlay will be more efficient. This means the practitioner must make a proper impression of the root anatomy to get a proper cast within which the inlay core is done. If direct technique is not indicated, as explained earlier, indirect technique becomes a solution, which means that an impression of the root anatomy must be performed.

The Colibri is plugged on top of silicon cartridge instead of dual-cure composite resin to keep advantages of “all-in-one concept.” After the preparation with the drill large 3 or 4 to remove root canal filling to place the post, the metal tip of the Colibri is placed into the root until gutta-percha contact and silicon injection starts from the depth until the coronal part in order to provide a good homogeneity. With the use of Colibri, the use of lentulo to improve the root filling with silicon is not needed. That reduces clinical steps and time needed for injection during the impression process. When the post is fabricated in the lab, the practitioner must inject self-adhesive resin cement in the root before the placement of the post (Fig. 4).

Colibri at a glance
Two important clinical steps can be simplified with Colibri: 1 root anatomy impression, and 2) cementation of the inlay core.

The new device designed to fulfill all of the above-mentioned indications (direct core buildup technique, impression of the root anatomy and cementation of the post) is the Colibri. The Colibri is a combination of the well-known standard mixing tip with an integrated cylindrical needle, which is bendable and 360-degrees fully rotatable. This versatility enables practitioners to simplify everyday dentistry — whatever the technique.

The Colibri is a gracile tool, able to also reach posterior and constricted working areas. Practitioners save time with the integrated needle because no additional tip assembly is necessary. The Colibri has a medical stainless-steel needle that enables corrective bendings without restricting the inner-diameter. The material flow is stable and comfortable. Different diameters, ranging from 0.9 to 1.4 mm, fit various material viscosities. Additionally, the rounded ends of the needle remove risk for injuries to the patient (Figs. 5, 6).

The company that manufactures the Colibri, Sulzer Mixpac, offers a market-leading system for single- and multi-component materials to the dental industry. The products are compatible with the various systems for impression and restorative materials.

The product is manufactured in Switzerland and assembled under ISO 9 cleanroom conditions. The raw materials are compliant with FDA regulations. As a result, the Colibri fulfills a high standard of cleanliness and hygiene.

Conclusion
The Colibri provides a new option to simplify reconstruction of non-vital teeth regardless of the selected technique. Direct technique — for core buildup restorations. Indirect technique — for impression of the post core (preparation) and cementation.

Other clinical applications are also indicated, such as cementation of the post with self-adhesive resin cement and traditional impression of cervical margin because of the accuracy of the metal needle on the mixing tip and its ability to bend. Colibri combines outstanding mixing quality with a previous unknown flexibility and can be used everyday in various applications.

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