**Biomechanical implants stimulate bone growth**

OCO Biomedical is a worldwide leader in immediate-load dental implant technology. Its Dual Stabilization™ implants achieve a biomechanical lock at placement and are engineered to stimulate bone growth via patented implant features. The system can be used for a variety of implant needs. According to the company, the proven implant body design enables practitioners to Logically Progress™ from 2.2 mm to 6 mm implants for virtually any clinical indication — and “complete packaging” makes the system simple and economical.

(Source: OCO Biomedical)

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**R-dental’s METAL-BITE earns awards**

The universal registration material METAL-BITE®, from German manufacturer R-dental Dentalerzeugnisse GmbH, has developed into a standard for occlusal registrations within the last decade, according to the company.

The dark gray A-silicone (VPS) earned a number of awards for excellence in 2012 and 2013, including an honor from www.realityesthetics.com. Additionally, in November 2013, The Dental Advisor (Dental Consultants Inc.) presented METAL-BITE with its “Preferred Product Award” for 2014 — the second year in succession the product has earned the award.

According to R-dental, the universal registration material is indicated for a broad variety of universal registrations, and among the many dental professionals recommending it is German opinion leader Prof. (HR) Dr. Alexander Gutowski.

Additionally, according to the company, METAL-BITE is predestined for bite-plate applications of the facebow registration system (www.sam-dental.de) and for manufacturing surgical guides for implantology (www.sicat.de). According to the company, it is used successfully, for the fit of para-occlusal tray adapters in CMD-therapy.

The physical characteristics of the product are described by the company as “convincing.” For example, the company describes the material as being extremely fast and hard, easy to trim — and “very suitable” for cutting and contouring. The company reports that the material has no taste, is radiopaque and offers an “excellent dimension stability.”

The product is available in standard 50 ml auto-mixing cartridges and is dispensed with a commercial mixing pistol (dispenser).

To learn more, you can contact manufacturer R-dental Dentalerzeugnisse, in Germany, by telephone at +49 (402) 275-7617 or by email at info@r-dental.com. You can learn more on the Web at www.r-dental.com or www.pattersondental.com.

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Scan this code to read more on the R-dental website: www.r-dental.com

Scan this code to read more on the Patterson website: www.pattersondental.com/supplies/product_family/details/12524
Komet USA’s F360 root-canal system simplifies treatment

By Komet USA Staff

The Komet® brand is synonymous with precision-engineered rotary dental instruments. According to the company, the name has long been associated with attention to design and construction detail, high manufacturing standards and integrated instrument systems to meet the daily treatment requirements — and more complicated patient-care challenges — facing general and specialist practitioners. With a 90-plus-year history of melding tradition with innovation and superior products with responsive customer service and direct sales, the company is known not only for its comprehensive range of diamonds and burs but for its endodontic instruments and post-treatment restorative options. Komet has been in the endodontic-instrument business for years, producing, among other items, stainless-steel hand files, K-files and Hedstroem files, which continue their usefulness and popularity, as well as a selection of root-post systems to facilitate post-treatment restoration.

Seeking to address the growing number of root-canal cases now treated in U.S. general-dental practices, Komet closely examined the challenges of speed, ease of use, economy and safety and tasked its R&D, design, engineering and manufacturing specialists with meeting these requirements. The need for endodontic services has expanded in line with demographic shifts, and within the dental community, general practices now provide almost all types and levels of treatment. General dentists are referring less to specialists, and general dentists who previously focused exclusively on cosmetic dentistry or family dentistry, for instance, have moved from being generalists with a specialty to being true generalists.

Komet’s objective with the development of the F360™ files was to address the needs of approximately 90 percent of the endodontic cases general practitioners encounter among their patients and to appeal to the practice style of U.S. dentists. Toward that end, the Komet team began with the idea of minimizing the number of files required for endodontic treatment, seeking to offer some distinct advantages over other root-canal preparation systems.

Now constituting the heart of the Komet endodontic-instrument systems is one of Komet USA’s latest and most innovative product launches: the F360™ root-canal preparation system, a system Komet calls “undeniably simple,” a phrase that represents the advancement F360 files bring to endodontic treatment. Use of the files demands no change of technique, and these rotary-operated files require only one speed and one torque level for all the instruments. The F360 files are constructed of NiTi, which has proved its worth in dentistry.
Changing lives a smile at a time

A ‘Six Months Smiles’ case

By Dr. Angie Nauman

One of the aspects of dentistry that drew me to this field — an aspect I first became aware of when I was in fourth grade — was the incredible transformation that can be made with orthodontics. This case study from my general practice illustrates that rewarding aspect of the profession.

I met Matt in Tulsa, Okla., when he was helping to redesign my website. He was 26 years old — and a friendly, kind young man — but I could tell he was hiding behind his closed-lip smile. Fortunately, Matt’s wife started coming to our office for her dentistry needs, and Matt soon followed.

Matt didn’t come to our office because he was concerned about his looks — he wanted his teeth straightened because he kept biting his lips. At the time, I had been treating Six Month Smiles cases a year, and I knew I would be jumping into a big case, but I couldn’t help but imagine how his smile — and his life — could be changed.

On the day of impressions, my treatment plan for Matt was to extract one of his lower incisors to create space for alignment. He was in agreement with what I suggested. I spent time on the Six Month Smiles forum while his case was at the lab, and I changed my mind and decided to proceed without any extractions. I knew this would require interproximal reduction, but I knew that because Matt is a smaller-framed man, his smile would still be proportional to his overall appearance if the teeth were slightly more slender.

Delivery of Six Month Smiles went well, and Matt was thrilled that he did not need to have a tooth extracted. He adjusted well during the first month and continued to have a great attitude throughout treatment.

We started with 0.014 wires, and slight IPR throughout (“slight” because I like to take it easy with IPR at the braces-on appointment). During the first two monthly visits, I kept 0.014 wires and added on many wire ties to help the wires engage fully into the brackets. I reduced the bite guards at each visit as his bite would allow.

The next few months’ treatment included the 0.016 wires — and rubber bands in a box shape between upper canines and premolars to lower canines and premolars. Then we moved up to 0.018 wires and powerchains to tighten contacts. I was surprised that at the seven-month mark, his lower teeth were beautifully straight and his occlusion was good, so we were able to remove the lower braces. Matt’s oral hygiene was sub-par, so I was glad we could remove the lower brackets so that he could focus on improving his gingival health.

At seven months, lower teeth are straight; two weeks later, upper teeth are aligned; and, ultimately, #8 is bonded to complete the patient’s new look.

Within two weeks, his upper teeth were aligned beautifully. We took his braces off and bonded #8 to complete his new look.

Total treatment time was seven months for lower and 11 months for upper. Matt was extremely happy with his new smile, and I was happy with the result. Cosmetic orthodontics for adults can be very rewarding. When the patient does not want to go through comprehensive orthodontics, we now have a viable solution for those patients through Six Month Smiles.

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Industries for years. But it’s Komet’s development of the S-shaped cross-section that is a true achievement in design technology, according to company representatives, who report that the design dramatically reduces the number of files required for preparation procedures. This change affects speed and simplicity — enabling faster, simpler root-canal preparations.

The Komet F360 endodontic file system permits preparation of most root canals with a simplified, time-saving sequence requiring only two files. Highly flexible to minimize canal transportation, the files’ unique S-curve design and a thin instrument core provide cutting efficiency while respecting natural root-canal morphology. Only two files in sizes 025 and 035 are required for most root-canal preparations. Their 0.04 taper promotes optimal debridement of the canal, maintains file flexibility and thus reduces preparation errors and permits ideal shaping of the root canal for subsequent obturation with any method.

The F360 files are employed in a torque-limited motor and used in a picking motion up to a predetermined working length. The same torque (1.8 Ncm) and speed values (250-350 rpm) are used for all files; dentists need not adjust speed or torque upon changing files during the preparation sequence.

In addition to sizes 025 and 035, the F360 files are offered in sizes 045 and 055 to meet additional clinical situations, such as wide roots, and all F360 files are available in three lengths (L21, L25 and L31) to address varying coronal requirements.

The presterilized, single-use files prevent cross-contamination, eliminate the need to clean, disinfect and sterilize the instruments — and reduce the risk of fracture due to cyclic fatigue.

Available in a sterile blister pack of six files of a single size and length, the files are supplied with a user’s manual and step-by-step instructions. The Komet F360 root-canal preparation system also is available in a special Endo Introductory Kit, which includes 12 F360 files in size 025, 12 F360 files in size 035, the Komet AK10 file for pre-enlargement of the canal, a pack of paper points and a pack of gutta-percha points.

About Komet USA

Celebrating its 91st year in the dental industry, Komet is a recognized worldwide leader in the production of highly specialized, precision dental rotary instruments. Komet operates in the United States under the name Komet USA and sells direct to dental practitioners and dental laboratories. The company’s U.S. headquarters is in Rock Hill, S.C. For more information about Komet USA or the F360 endodontic file system, call (888) 566-3887 or visit www.komet-usa.com.
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“I wish I would have attended LVI earlier in my career. I still have time to make a difference but this info is too valuable to not be used throughout an entire dental career.”

—Dr. Tim Stirmeman Algonquin, IL

“Not only did I learn what I didn’t know about dentistry, I learned how to help my own long history of pain in the head and neck. Thanks for the missing link.”

—Dr. Paul Bell, Denver, CO

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