LESS COMPLEXITY AND MORE CREATIVITY WITH ESSEN'TIA

As a family-owned Japanese company continuously improving its core competences and technologies, GC strives to develop smart solutions for dentists’ daily challenges. This sometimes means thinking against traditional concepts. In this respect, the company has announced to roll out a daring new approach to aesthetic dental restorations with Essentia, which was developed together with a group of experts in aesthetics.

Once more, GC conquers new frontiers and is offering an innovative solution for daily challenges, which perfectly blends versatility, simplicity and aesthetics in a smart solution enabling dentists to just follow their intuition. Essentia does no longer rely on the traditional VITA colours but on a very simple assortment of seven shades, created to mimic natural teeth at any patient’s age and offering dentists the maximum of creative freedom. GC pursued a long development process creating a very lean and simple colour scheme, including only seven different shades. According to the company, this material is more than a real alternative to conventional shade systems, as it marks a paradigm shift in restorative dentistry. Shades are no longer named after the traditional “bue” (A, B, C, D) of commonly used systems, but instead following the chroma (intensity) and value (lightness) of commonly used systems, but instead following the natural enamel and dentin characterisation to their restorations are gaining from Essentia. The four dedicated modifiers have been developed to satisfy various demands, such as the desire for an opalescent halo on the incisal border, fissure staining or mimicking white spots. By boldly reducing the complexity of conventional shade systems, Essentia brings restorative dentistry to its essence and opens up the way to maximal creativity.

ELS EXTRA LOW SHRINKAGE

With a new formula and improved sculpability, Saremco has been successful in further developing its leading product els extra low shrinkage. Dentists from the Middle East will be able to get hands-on the composite at this year’s AEEDC show in Dubai.

Els extra low shrinkage provides high biological safety and extremely low shrinkage stress, which significantly reduces the risk of microcracks and postoperative sensitivities, while providing the best preconditions for tight margins in the long term.

According to Saremco, els extra low shrinkage is recommended for all restorations, ranging from class I to V.

SAREMCO, SWITZERLAND
www.saremco.ch
Booth 8F14

CUSTOM-MADE DENTAL IMPLANT DRILLS

Following a 10-year development process, the company is now able to manufacture drills with even the most complex shapes including conical, cylindrical or stepped. Additional production technologies such as coatings, heat and surface treatments, laser markings and colour identification can also be provided.

FTDM-PNEUMAT manufactures dental implant drills according to the specifications of different implant manufacturers. According to the French company, its drills feature a high cutting power and offer an excellent resistance to the corrosion.

Following the demands precisely, technical drawings are being sent to each customers for acceptance before the manufacturing process commences. Once the drawings are validated, the drills are manufactured according to ISO 9001 and ISO 13485 standards.

MODEL AND IMPRESSION SCANNING FOR EVERY DIGITAL LABORATORY

Medit invites dental profession- als to rediscover their productivity with Identica Hybrid. According to company, the device represents the apex of dental scanning to push every lab further with nearly unsurpassed speed, accuracy, reliability, and an award-winning design. Built upon the speed and precision of the Identica Blue, improvements were made in almost every area.

Identica Hybrid is Medit’s most powerful scanner to date. When designing the device the company focused on the requirements of laboratories for the purpose to develop a precise, fast, and reliable machine that is both easy to learn and use. The limits of their impression scanning technology were pushed to offer more speed, details, and accuracy along with the benefit of a 3-axis impression arm that enables an auto-double impression scan in one step. Scan times and data efficiency have been improved significantly. Compared to previous models, Identica Hybrid has 74 per cent faster scan times. Thus a full arch can be scanned in 16 seconds. The new data file format is 84 per cent lighter, significantly decreasing processing times.

Identica Hybrid is equipped to scan for both models and impressions with the same speed, accuracy, and reliability that technicians have come to expect from Medit. Also, the new flexible multi-die speed up the workflow by allowing the scan of a full arch, or partials, with single dies simultaneously or up to eight single dies separately. Compared to conventional methods, this feature will allow for significant time savings.

Like its predecessors, Identica Hybrid comes with a large scanning chamber so one can easily work with multiple types of arti- culators (Artex, Sam, KaVo) and large models. The new Identica Software 2.0 upgrade is intuitive and colour-coded with a re-designed user interface. While every work is automatically saved, users can also save, redo, and undo their jobs at any point. Identica Hybrid uses triple color scanning technology with color texture support, enabling technicians to include hand drawn markings in the digital design, resulting in high definition images of the model or impression surface.

Identica Hybrid’s scan accuracy is regularly tested at 1.7 μm with a standard deviation of only ±2 μm to guarantee high quality scans every time. In addition, the patented intelligent multi-view (BMV) technology provides more details and more accuracy in deep occlusal areas.

Since 2000, Medit has been committed to building high-quality, reliable 3D dental scanners that work for their user every day. The company offers remote support sessions in which trained technicians are able to look directly into a user’s scanner to identify problem areas. Periodic on-site training and online video tutorials for user’s staff are also available.

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Some dentists might feel that hard sensors can be problematic, as the corner of the sensor can hit the front of the palate and consequently cut off the canine and make it difficult to capture the root tips. The lower-priced PSP imaging plates come in larger sizes, providing a greater image area and making the plates easier to position accurately, as they are thinner and more flexible, just like film.

At this year’s AEEDC, digital imaging specialist 3DISC Imaging will be exhibiting its FireCR Dental PSP Reader and its brand new high-definition intra-oral camera, the FireCam HD. The FireCR Dental PSP Reader ensures fast and high-quality images and offers dentists a long-term investment with unlimited software upgrades. It is the only size of a shoebox and supports true-size 4c imaging plates, enabling the capture of more teeth and roots on the same image, avoiding having to stitch smaller images together. The magnetized tray ensures a longer image plate life, by allowing the plates to be positioned accurately, as they are thinner and providing a greater image area and flat during readout. It supports network and TWAIN interfaces.

The very first dental implants, placed by the late Prof. Per Ingvar Brånemark 50 years ago, had parallel walls. Those implants stayed firmly in place for the rest of the patient’s life. Half a century later, Nobel Biocare aims to continue the evolution of this straight design with its NobelParallel Conical Connection. According to the company, the new implant combines best-in-class features from the successful Brånemark and NobelSpeedy Groovy parallel-walled implant systems with an advanced internal connection. It is designed for universal use in all bone qualities and for a wide range of indications. With implant sizes ranging from a 3.75 mm narrow-platform variant to a 5.5 mm wide-platform option, it can be used in both the anterior and posterior regions.

Whether at the back or the front of the mouth, the straightforward surgical protocol will be appreciated by both experienced clinicians and those early in their implant careers through its flexibility and shortens treatment time for the benefit of patients, the company said. With the implant design its form a unique combination intended to enable immediate function in cases in which it might otherwise be impossible. The thread design and tapered apex of the implant help ensure primary stability by allowing both under-preparation of the surgical site and bicortical anchorage.

Osseointegration during the initial healing phase is enhanced by Nobel Biocare’s TiUnite surface. In addition, patented grooves are intended to encourage new bone formation for a predictable end result. This new evolution of the original implant design achieves its full potential when used together with original Nobel Biocare components, according to the company. The implant has an internal conical connection with hexagonal interlocking for high mechanical strength, making a wide range of innovative restorative options possible, including the NobelProcera ASC (angled screw channel) Abutment for easier access and increased aesthetic possibilities, as well as the NobelProcera FCZ (full contour zirconia) Implant Crown, which offers the strength required to deal with high occlusal forces in the posterior region.

Among other benefits, these cement-free solutions mean the NobelParallel Conical Connection can achieve optimised results with out any of the risks associated with excess cement.


With elasticity similar to dentin, the properties of VITA ENAMIC IS provide effective absorption of masticatory forces. As a result, VITA ENAMIC IS enables implant-supported dental restorations that offer reliable load-bearing capacity. The innovative hybrid ceramic also allows high-precision milling results to be achieved in thin marginal areas. Fast processing is ensured as the superstructure can be seated directly following CAM fabrication and polishing. For more information, visit: www.vita-zahnfabrik.com/cadcam

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Based in Cologne, Germany, Adentatec is a global provider of non-precious dental alloys on cobalt-chrome and nickel-chrome base, as well as CAD/CAM discs on cobalt-chrome and titanium base. Its SYSTEM SOFT-BLANK is a nickel- and beryllium-free cobalt/chrome disc for use in CAD/CAM processes. Furthermore, it is suitable for soldering.

SYSTEM SOFT-BLANK is especially soft, good tensile and homogeneous owing to special heat treatment and features high corrosion resistance and biocompatibility. According to the company, it is available in many diameters and measurements, for almost every type of machines.

Established in 1997, Adentatec offers a high-quality range of products for dental laboratories. All medical devices distributed by the company are exclusively produced in Germany and are certified to the highest standards (CE marking and US Food and Drug Administration), as it is committed to the strict implementation of the quality and process requirements of DIN ISO 13485 and DIN EN ISO 9001 for its entire manufacturing process.

ADENTATEC, GERMANY
www.adentatec.com
Booth 7E04

Whole range of laboratory products on display by Adentatec

German dental manufacturer VITA presents new CAD/CAM blanks for implant-supported restorations at the AEEDC in Dubai this year. They are manufactured from hybrid ceramic, glass ceramic and composites and feature an integrated interface (screw canal including anti-rotation lock) for an adhesive/titanium base (e.g., TiBase), making them compatible with the implant systems of many manufacturers, the company said.

VITA Implant Solutions blanks are available in three versions. Thanks to an elasticity that is similar to dentine, the hybrid ceramic ENAMIC IS blanks are capable of absorbing the impact of masticatory forces. Hence they are recommended for permanent restorations. In addition, manufacturing of VITA ENAMIC IS superstructures can be done quickly and cost-effectively, according to the manufacturer, since the material can be processed with CAD/CAM equipment. Restorations made of hybrid ceramic can be inserted directly after polishing since no further thermal treatment is necessary.

VITA ENAMIC IS and VITA SUPRINITY IS, a high-strength, zirconia-reinforced glass ceramic for permanent superstructures, are available in two different geometries and degrees of translucency. This will allow manufacturing of both two-piece restorations consisting of a mesostructure and a crown, and one-piece monolithic abutment crowns. The one-piece solution is primarily recommended for the posterior area and the two-piece solution for implant-supported crown restorations in the anterior area.

VITA IMPLANT SOLUTIONS are completed with the VITA CAD-Temp IS blanks made of composite material for temporary restorations. In addition to their suitability for provisional restorations, they can be used for creating individualised emergence profiles.

VITA IMPLANT SOLUTIONS—CAD/CAM blanks with an integrated interface to an adhesive/titanium base.

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A-dec is showcasing the latest addition to their product range at AEEDC 2016. Along with a competitive price point, the A-dec 300 offers a complete solution with the ability to specifically configure for each practice. The new update builds on the current designs by adding features such as virtual pivot to the chair for enhanced patient comfort, and a third delivery system configuration option that precisely fits the needs of the dental team, while still maintaining an attractive price.

Built as a modular unit, dentists begin with the chair, and pick and choose the features they want: from delivery system styles and touchpads, to foot controls, lights and monitors. The result is an individualized solution that fits the needs of the dentist, as well as their budget. This complete and adaptable solution serves an invaluable purpose for both US and global customers, by offering solid A-dec quality at a flexible price point. With ancillary integration, dentists can also add new integrated clinical devices down the road to evolve along with the growing needs of their practice.

“In redesigning the A-dec 300, we wanted to offer a full solution that provided superior value and unparalleled choice. The updated design provides improved comfort for the patient and more choice for the doctor, while still fitting into their budget,” says Shayne Krebs, A-dec Product Manager. “This system is another example of the A-dec commitment to constant innovation and improvement. I can’t wait for customers to come see and experience it. Many dentists who currently do not own A-dec equipment will be surprised about the level of premium quality and reliability they can afford.”

A-dec, USA
www.a-dec.com
Booth 6C01

Visitors are invited to visit the booth of Thomas, as the French manufacturer has developed a new rotary nickel-titanium system named NiTiShaper. The successive use of its three instruments (T1, T2 and T3), allows to shape root canal fast and comfortably. Owing to the intelligent design of the blades, the work is progressive and equally distributed between the three instruments. This way, the majority of the root canal anatomy can be treated. Simplicity, efficiency, safety are the strong points of NiTiShaper, the company said.

FFDM-PNEUMAT, FRANCE
www.thomas-dentaltools.com
BOOTH 3G09

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Introducing the Middle East in autumn 2015, the Straumann Bone Level Tapered Implant (BLT) is a substantial addition to the Straumann Implant Dental System portfolio. The Straumann Bone Level Tapered Implant offers excellent primary stability in soft bone and fresh extraction sockets. The tapered form adequately compresses the underprepared osteotomy. It also allows dentists to effectively master their patient’s limited anatomy such as facial undercut, converging root tips, concave jaw structure or narrow atrophic ridges.

Building on the clinically proven features of the successful Straumann Bone Level Implant line, BLT also introduces the powerful combination of Roxolid, SLActive, Bone Control Design, CrossFit connection, and prosthetic diversity in an apically tapered implant body. BLT has been given a very favorable response by the clinicians using it, as demonstrated in numerous feedbacks. Dr. Sergio Piano from Italy commented: “Thanks to the BLT, I can now provide ideal conditions for immediate loading in most patients.”

“The BLT is a revolutionary product like no other,” said Dr. Jean Louis Zadikian from France while Dr. Bruno Schmidt from Switzerland concluded: “With the BLT system I appreciate the precise instruments, the great attention even in difficult situations and the very good primary stability.”

Complete elimination of shadows during preparation remains a top priority for the large majority of clinicians. With the integration of five high-intensity, pinhead-sized LEDs into the small head of the its Synea Vision turbines TK-97 L, TK-98 L and TK-100 L, W&H allows dentists to benefit from the 100% shadow-free illumination of the preparation site. The preparation site is not only illuminated from mesial but also from buccal, distal and lingual/palatal at the same time with the new ring shaped light design. This way, full light intensity is guaranteed even in the most difficult situations, according to the company.

Patients also benefit from improved treatment safety with the new sterilizable 5× ring LED+. An integrated 5× spray with its five outlet nozzles guarantees perfect cooling and cleaning of the treatment site. The prepared site is not only illuminated from mesial but also from buccal, distal and lingual/palatal at the same time with the new ring shaped light design. This way, full light intensity is guaranteed even in the most difficult situations, according to the company.

STRAUMANN, SWITZERLAND
www.straumann.com
Booth 7C10

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W&H, AUSTRIA
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Booth 29

SYNEA VISION TURBINE WITH 5X RING LED+

STRAUMANN INTRODUCES NEW STANDARD FOR TAPERED IMPLANTS
3Shape TRIOS Orthodontics Integrates with Dental Monitoring

3Shape TRIOS Orthodontics has created a seamless integration with Dental Monitoring, which enables orthodontists using the TRIOS intraoral scanner to send digital impressions directly to the Dental Monitoring platform. After the patient’s current baseline tooth position is determined with a digital impression, the application then enables both the orthodontist and patient to monitor an orthodontic treatment by aligning photos taken regularly with the patient’s smartphone and comparing them with the original baseline tooth position as identified by the initial intraoral scan.

“The Dental Monitoring platform is an exciting new tool for orthodontists and for encouraging patient treatment participation. The smooth integration between TRIOS Orthodontics and the platform will make it much easier for more orthodontists and patients to take advantage of the innovative platform,” said Flemming Thorup, 3Shape president and CEO.

As the digital impression becomes the first reference point in defining the baseline tooth position as well as a benchmark for all future calculations made by the application, it makes the accuracy of the initial intraoral scan paramount. The leading accuracy of the 3Shape TRIOS will ensure a precise image for the Dental Monitoring platform, the company said. The device was recently named the dental market’s most accurate intraoral scanner in a study published by the American Dental Association.

“The 3Shape TRIOS has an excellent track record when it comes to accuracy and user-friendly interface, so we’re very excited about the integration of our platforms,” said Philippe Salah, Co-Founder and CEO at Dental-Monitoring. “I think this integration is the next logical step in the development of our product.”

PRODUCT NEWS FROM NTI

At the AEEDC in Dubai, German dental instrument manufacturer has its latest portfolio on display. The new tungsten carbide instruments, for example, have been optimised mainly for the separation of teeth, roots, and for apicectomy. Its A-blade has a high degree of smooth running with an excellent cutting capacity and has therefore become the instrument of choice with surgical procedures. Bone lid preparation and harvesting of bone structure for augmentation are further possible uses.

The smooth surface of the blades facilitates cleaning and reuse of the instruments. Their improved geometry further provides a high degree of stability and consequently an excellent, economical service life, the company said.

The long FGXXL shank with the particularly long, slim neck guarantees a reliable view during the apicectomy. Also, the new perforated diamond finishing strips by NTI adapt particularly flexibly to the surface of the tooth, which facilitates proximal contouring of Class II, III, and IV fillings. Increased reduction is achieved with the aid of the perforations. The round design of the perforations ensures stable strips. Selected grit in three stages allows application according to the situation. The diamond grit continually forms new efficiently cutting edges and guarantees repeated use. The stainless steel of the strip guarantees the stability for repeated preparation and increases multiple usage.

NTI KAHLA, GERMANY
www.nti-kahla.de
Booth 7F07

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