With 50 new innovations on display at IDS, Dentsply Sirona showcased the power that resulted from the merger of the world’s two largest dental manufacturers. Under its slogan “The Dental Solutions Company,” Dentsply Sirona presented integrated solutions that it said will enable both general dental practitioners and specialists to offer their patients better, safer and faster dental care.

It is our goal to improve the predictability and efficiency of treatments and achieve optimum care even faster. We accomplish that primarily by way of integrated solutions, and that is what makes us “The Dental Solutions Company,” explained Jefrey T. Slovin, CEO of Dentsply Sirona, at the event in Cologne. “I’m proud that we were able to present 50 groundbreaking innovations here just one year after the merger. They are the result of our joint research and development efforts, as well as the close exchange of ideas with our customers.”

Dentsply Sirona demonstrated its unique ability to address mega trends in the dental industry with integrated solutions. The key to this accomplishment, according to the company, is the efficient combination of enabling technologies and consumables to transform treatment workflows. This includes pioneering products and processes that fulfill the individual needs and requirements of dental practices, exemplified by innovations announced by Dentsply Sirona at IDS concerning two particular areas: CAD/CAM and endodontics.

Strategic decisions

More than 30 years ago, Dentsply Sirona introduced CEREC to the market, a CAD/CAM system that allows restorative treatment in a single visit. Moreover, it offers efficient solutions for implantology and orthodontics. At IDS, the company announced that the CEREC system will now allow the export of scan data in STL format, which means that digital impressions data can be used with software from other manufacturers. This provides dentists pursuing a gradual transition to the digitalization of their practice with flexibility. They can now use CEREC Omnicam scans seamlessly when collaborating with their dental laboratory or with other clinical planning software.

CEREC is the best-tested solution on the market, as well as the one tried and tested over the longest period,” Slovin said. “The clinical success has been demonstrated in more than 250 studies. Over 40,000 users work with CEREC and have successfully performed millions of restorations this way. Consequently, Dentsply Sirona is well positioned to intelligently combine products into a unique workflow such as the one provided by CEREC.”

Furthermore, Dentsply Sirona announced a definitive agreement to acquire all of the outstanding shares of RTD (Recherches Techniques Dentaires), based in France, this company is the world’s leading provider of endodontic posts and perfectly complements Dentsply Sirona’s portfolio of endodontic and restorative products. Both companies have had a successful long-term partnership, in which RTD supplied Dentsply Sirona with endodontic posts. In this way, Dentsply Sirona’s endodontic unit can provide even better-planned solutions than before.

Solutions at a glance

Dentsply Sirona has developed a clinically tested process for nearly every treatment requirement, in which all work steps are lined up like stations along a subway route. Transfers to alternative routes ensure that clinicians have enough flexibility to choose the best treatment option for each particular patient. Dentsply Sirona offers dentists and dental technicians solutions based on their very specific needs.

Symbolizing the digital intertwining of processes, the route map provides both general dental practitioners and specialists with plenty of options. Depending on the indication, patient requests or the practitioner’s personal preferences, efficient workflows can be used to reach the destination and desired results quickly and successfully.

The solution app developed particularly for IDS directed the user to the right business units, booths based on the searched topic, areas of interest or products.

“At IDS, it became apparent that it is less about the individual products,” stated Chris Clark, President and Chief Operating Officer for Technologies at Dentsply Sirona. “Treatment workflows can be more effective and efficient if the individual steps, the technologies deployed and each product used are integrated and well matched.”

Well-thought-out solutions for various indications

Dentsply Sirona has already had great success with its integrated solutions just one year after the merger. Based on intense collaboration between the individual business units, well-thought-out workflows for various indications have been created.

Endodontics is one example. Diagnosis and treatment planning are supported by CBCT-based 3D endodontic software. For the treatment itself, Dentsply Sirona has developed R2C-The Root to Crown Solution—which includes innovative file systems and both direct and indirect restoration concepts. The practitioner also benefits from the endodontic feature that is available as an integral component of the Teneo and Sinus, which are the only treatment centres on the market with incorporated reciprocal file systems.

The solution features have also been expanded to implantology. Diagnosis using 3D radiographic devices, digital impressions using CEREC Omnicam, treatment planning with the corresponding software, manufacturing of surgical guides, and insertion of clinically tested implants and their CAD/CAM-supported treatment merge seamlessly. In addition, the implantology feature integrated in the Teneo and Sinus treatment centres provides maximum comfort during placement.

“It is not a coincidence that more than 600,000 dental professionals worldwide work with Dentsply Sirona products and treat up to six million patients every day,” Slovin stated. “Practitioners believe in the quality and clinical safety of the products, as well as the 100-year existence of our company. We do everything in our power to maintain this trust for at least another 100 years with our safe solutions.”

**Dentsply Sirona at IDS 2017**

Impressive demonstration of integrated solution expertise

*Fig. 1*: We do not have products in mind, but solutions—that is what makes our company “The Dental Solutions Company,” said Jeffrey T. Slovin, CEO of Dentsply Sirona. *Fig. 2*: The audience at the fair took the opportunity to talk to Dentsply Sirona representatives throughout the event. *Fig. 3*: Integrated solutions were the focus of nearly all Dentsply Sirona’s exhibition booths.

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**Dentsply Sirona Solution Map IDS 2017**

The product portfolio of Dentsply Sirona offers a wide range of various specifications and products. These have been mapped into journey maps, related to the different functional areas and meeting points. The concept is underpinned by using the Dentsply Sirona solutions portfolio, plotted according to the different relevant workflows.

**Fig. 1**: Omnicam scans seamlessly when combined with other clinical planning software. **Fig. 2**: The audience at the fair took the opportunity to talk to Dentsply Sirona representatives throughout the event. **Fig. 3**: Integrated solutions were the focus of nearly all Dentsply Sirona’s exhibition booths.
Our dedicated in-house R&D team of 57 scientists and engineers creates and tests clinical products and materials.

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Produits Dentaires stands for Swiss quality in dentistry. In more than 100 countries, the company offers dentists a wide range of high-quality products for use in endodontics, restorative dentistry, prophylaxis, prosthetics and periodontology. At the recent International Dental Show (IDS), today international had the opportunity to learn more about the Swiss company’s future business strategies and portfolio.

“We are a family business that has been operating in dentistry for 77 years now. However, this is a special IDS for us because we are entering a new phase. What we’ve been presenting here is our vision for the future,” Yann Gehrig, Co-Executive Director of Produits Dentaires, along with his brother Nicolas told Dental Tribune International on-site. “Our portfolio has been very broad in the past. Now, our focus is on one particular area: endodontics.”

The company’s well-established MAP (Micro-Apical Placement) System, for example, is a unique method for effectively placing root canal repair materials. This high-end product for specialists has been manufactured for more than ten years. With MAP One, Produits Dentaires now offers general practitioners performing endodontic work a useful, cost-effective and easy-to-use version of the MAP System. “With this new product, for instance, we are able to give a much wider audience access to our products. This is an important aspect of our vision and we’ll continue in this direction,” stated Michel Ruffieux, Sales and Marketing Director at Produits Dentaires.

Over the past several years, Produits Dentaires has built up an extensive distribution network of agents, wholesale dealers and dental suppliers, making its products easily available worldwide. “With regard to meeting our partners and establishing new business relations, IDS is key for us. It is the only truly global exhibition,” Ruffieux commented.

Another key element of Produits Dentaires’ business strategy is education. The company provides information and support worldwide through a national and international expert team of dentists, dental hygienists and other specialists from the medical field, with whom it also regularly organises workshops and conferences. In addition, several research projects are running in close cooperation with universities and colleges in Switzerland and worldwide.

“Our overall mission is to make dentistry simpler and more accessible for everybody,” he concluded.

To this end, the company organised a workshop area at its booth this year for the first time at IDS. Every day during the show, Produits Dentaires offered free lectures and workshop sessions, which were presented by key opinion leaders from Style Italiano, for instance, and very well attended and received.

More information about the company can be found at www.pdsa.ch.
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“We are seeking to make inroads in markets that we have underserved for the last several years”

An interview with SS White sales managers Michael Schwartz and Michael Schilk

Do you feel that the western European market is receptive to your portfolio?

Schwartz: We have a compelling story: we are the oldest bur manufacturer in the world. We feel that we have technology that differentiates us from the rest of the competitors and we have global manufacturing—that sets us apart from our competitors, and it is our job to communicate that message to the dental community.

What are your impressions now, three days into IDS?

Schwartz: The feedback so far has been excellent. Our brand is known worldwide as a premium brand, and it is nice to see over and over again that people we have not had contact with before are eager to speak with us and acknowledge SS White as one of the most recognizable brands in the market. Our ability to move opportunities forward has been fast tracked because of our brand reputation. I would say that, right now, we are even ahead of our plan for our dealer expansion.

Schilk: When I came here, I knew that it was probably the largest dental convention in the world. When one walks the halls, one notices that innovation is everywhere. This convention speaks to innovation. We have been coming here forever, and with our innovative philosophy and products, it is a nice fit. In addition, we have received feedback and validation from global customers who have come to our booth and that tells us that our strategy to build a bigger footprint globally and to provide the support to key opinion leaders to achieve better outcomes has been successful. We are really looking forward to not just the remainder of IDS, but our continued attendance here in the future.

Thank you very much for the interview.

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When innovation meets indication

With GRADIA PLUS, GC presents a simpler, smarter composite system for indirect restorations

When GC was developing its new laboratory composite, a main consideration was the needs of dental technicians. The new GRADIA PLUS composite system for indirect restorations is therefore the result of close cooperation between the company and a group of leading dental technicians from all over Europe, who were involved in the very first stages of development.

GRADIA PLUS is a high-strength nano-hybrid light-curing system that consistently exceeds aesthetic and performance expectations over a wide range of indications and techniques, from classic or multi-chromatic build-up to monolithic approaches. According to GC, it has a brightness, translucency, chroma and natural opalescence that compare favourably to ceramics. Featuring half as many syringes as before, it comes with fewer standard shades and in a modular format, offering productivity, flexibility and individuality with no compromise on the end result.

Rather than dictate to the laboratory technician how to do his or her job, GC has developed this compact modular composite system with a number of stand-alone kits that individually give optimum performance. These include layer sets, paint sets, accessories and a state-of-the-art all-in-one light-curing device. GRADIA PLUS is an integrated system that, if used in its entirety, will produce exceptional outcomes; however, technicians can use whatever modules suit their way of working and the indications of the particular case. Having fewer standard shades allows individual mixing and layering, similar to ceramic veneering—easy and cost-effective with no compromise on strength. The colour range has been carefully chosen and adapted to the needs of dentistry today.

The unique modular concept allows the technician to step into the system wherever he or she likes. According to GC, there is always a set or a combination that will meet their demands regarding indication or technique. Being able to achieve the best possible aesthetics was a prime aspect in the development of GRADIA PLUS, as in addition to the creation of lifelike teeth and gingival shades, technicians will be able to closely match any oral situation—white or red—in both the anterior and posterior regions, ranging from single crowns to full rehabilitations, including everything from metal-free inlays, veneers and jacket crowns to frame-supported crowns and bridges and implant superstructures.

A long-term, permanent solution

A brilliant smile is only as good as long as it lasts. GRADIA PLUS has outstanding wear-resistance, GC said, with its compact, smooth surface providing durability and high-gloss retention. While remarkably strong, the composite is also gentle on opposing teeth, making it particularly suitable for posterior high wear, high-pressure restorations that are prone to chipping or cracking when made with porcelain. All of this can be achieved owing to the company’s state-of-the-art nano-filler polymer technology, which uses high-density and homogeneously dispersed ultra-fine fillers blended into the resin matrix. Knowing how vital handling is to the technician in selecting a restorative material, GC has ensured that GRADIA PLUS comes in different types of pastes, each of them adapted to their typical indication and area of application. Heavy Body, used in the creation of internal dentine structures, is non-sticky and retains its shape. The technician can use the Light Body shades separately or mixed together to create the desired colour tone. In high-aesthetic work, the layering technique, using both consistencies in the same restoration, offers an almost unlimited number of colour and texture combinations.

The GRADIA PLUS system includes Lustre Paint, innovative and versatile internal and external paintable colours that can easily be mixed together to achieve almost any colour balance. It also comes with its own diluting liquid if the technician wishes to adjust the consistency. Lustre Paint colours make it incredibly easy to add long-lasting colour and gloss, with high wear resistance. Used on the surface, it reduces polishing and saves valuable time.

The only light needed

Completing the GRADIA PLUS product family is the new all-in-one GC Labolight DUO, a multifunctional light-curing device that polymerises all shades effectively, with fast irradiation times, from classic or multi-chromatic to monolithic build-up. GC’s advanced softwavelength LED technology. The light offers two curing modes: pre-curing (step mode) and final curing (full mode). Owing to an automated rotary system and reflective plate, the light is distributed with optimum efficiency and the work is exposed from all sides.

For a more stable implant

W&H introduces Implantmed with W&H Osstell ISO module

With the exclusive integration of the Oststell ISO (Implant Stability Quotient) module into its new Implantmed, Austrian dental manufacturer W&H is now offering a unique system for the measuring of implant stability. In combination with the drive unit’s improvedfunctionalities, the module is intended to increase certainty and reliability in the evaluation of treatment success.

As an optional and retrofittable product feature, Oststell ISO offers clinicians the ability to monitor the status of osseointegration continuously and document it, along with the torque. The user can then make decisions with increased certainty. Additionally, patients benefit from an optimised treatment flow.

Determining the optimal time to load an implant is complex, since one must take into account all key parameters and the patient’s risk factors. The retrofittable W&H Oststell ISO module allows the surgeon to benefit from a unique system for the measuring of implant stability. While the Implantmed’s integrated automatic thread-cutter function and the torque control help the dentist during insertion of implants, the Oststell ISO module makes it easier to determine the optimal loading time for an implant.

According to the company, the stability value measured by the device helps to improve the success rate and is a form of quality assurance. With this non-invasive measuring system, it is possible to determine the primary stability of the implant, monitor the osseointegration using secondary measurements and establish the optimal point in time for loading the implant.

The ISO value (scale of 1 to 100) is shown on the display after the measurement has been taken. Implantmed’s documentation function allows convenient saving of all values of the implant insertion to a USB stick.

The W&H Oststell ISO module is optional and can also be retrofitted by simply connecting it to the new Implantmed at a later point in time. According to the company, this unique fusion of state-of-the-art technologies from W&H and Implantmed has made it possible to set new benchmarks in the international dental market and offer users a decisive bonus in terms of functionalities and optimal treatment efficiency.
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At the International Dental Show (IDS) in Cologne in Germany, there were more than 2,300 exhibitors—and Curaden was right in the middle of the action. At its booth, the established Swiss brand showcased the entire Curaden portfolio, including the well-known CURAPROX and CURASEPT brands, the new Prevention One practice concept and the ever-popular oral hygiene training programme iTOP. Curaden once again placed great emphasis on education at the trade show to highlight its vision of better health for all. At the booth, dental hygienists gave clear instructions on the proper brushing of teeth, gingivae and interdental spaces and supervised attendees, correcting their techniques.

Alex Galli, Head of Marketing and Sales at Curaden, concluded: “IDS was once again a great success for Curaden. More than 5,300 visitors brushed their teeth with great pleasure at our booth. Among our many highlights, we presented two new products in Cologne. With our CURAPROX Baby soother, we have taken a new approach to paediatric dentistry by seeking to prevent early malocclusion from the first month of life.

Whiter with every chew
Introduced in 2015, CURAPROX’s Black Is White toothpaste has established a whole new means of whitening teeth. During IDS, Curaden announced its expansion of the Black Is White product line. “Our new CURAPROX Black Is White chewing gum, the world’s first black dental chewing gum, containing activated carbon, was the subject of much excitement. In combination with hydroxyapatite and xylitol, our chewing gum gives dental professionals a new chewing gum with a wealth of dental health benefits,” said Galli. Using the power of activated carbon, both the toothpaste and the chewing gum whiten the teeth and remove stains.

Increased profit with healthy patients
At the IDS Speakers’ Corner, attendees witnessed nothing less than a revolution in prevention: in his presentation, Curaden’s Clifford zur Nieden introduced an innovative business model for (re)activating and motivating existing customers and attracting new ones, demonstrating that healthy patients are profitable to the practice too. “A combination of Curaden’s expertise in high-quality oral hygiene products, training systems and prophylactic concepts, Prevention One includes a well-coordinated combination of dental care products, software, a practice marketing and communication package, a dental health index, and a sophisticated training and certification system,” said zur Nieden.

More Swiss and Italian dental expertise
Its 230 m² booth at IDS also provided space for those companies in which Curaden is strategically involved. Thomas Flatt, Managing Director of Scanderra, said: “At IDS 2017, edel+white celebrated ten years in business. Our new EasyFlex interdental brush mirrors the curvature of teeth and can thus reach interdental spaces in all parts of the mouth, even the molars. Here, the bending point of the brush is supported by a neck that works like a collar. Curaden has been a great partner for Scanderra and we greatly benefited from our participation at the Curaden booth.”

*Fig. 1: Visitors learned more about the Matrix-Rhythm-Therapy. *Fig. 2: Our famous Black Is White toothpaste. *Fig. 3: Our new CURAPROX Baby soother prevents orthodontic misalignments. *Fig. 5: Combining functionality and design: The Hydrosonic Black Is White toothbrush. *Fig. 4: Ueli Breitschmid, CEO Curaden AG. *Fig. 7: Gerhò, Intermedical and Industria Zingardi at IDS. *Fig. 6: Scanderra celebrated ten years of edel+white in Cologne.
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At IDS, international chemical and advanced materials company Solvay presented Ultaire AKP, a high-performance polymer that has been specifically designed to meet critical performance requirements for dental applications. According to the company, the innovative aryl ketone polymer provides a biocompatible, lightweight, metal-free, non-irritating and more aesthetically pleasing alternative to traditional removable partial denture frames. It also expedites and facilitates the work of dentists and laboratory technicians through a digital workflow.

Ultaire AKP is the first product in the Dentivera milling disc family, which will be available under Solvay Dental 360, a new dental business line of Solvay Specialty Polymers. The discs have earned the European Commission’s CE marking and 510(k) clearance from the US Food and Drug Administration (FDA) and are manufactured in the US according to strict FDA and International Organization for Standardization guidelines.

“We are looking forward to expanding the availability of Ultaire AKP for use in removable partial dentures around the globe,” said Ieuan Shorrock, Global Director of Solvay Dental 360. “Ultaire AKP provides a previously unattainable level of comfort, performance and aesthetics for removable partial dentures, as well as a more streamlined digital workflow for the technicians and dentists working to provide a superior product and experience for their patients.”

“Ultaire AKP is the first RPD [removable partial denture] material we’ve worked with that completely supports our lab’s digital CAD/CAM workflow,” said Jonathan Hughes, Director of Hughes Dental Laboratory. “We’ve seen significant time savings because we’ve been able to eliminate the waxing, investing and casting steps, allowing us to go direct to mill. Incorporating Ultaire AKP into our existing processes was very easy—it was a truly seamless transition.”

With over 35 brands available in more than 1,500 formulations, Solvay claims to have the broadest portfolio of high-performance healthcare polymers in the world. The company has more than 150 years of experience developing cutting-edge materials, as well as more than 25 years as a leading polymer supplier to the healthcare industry, where its plastics are used in orthopedic, cardiovascular and renal markets. Through products like Ultaire AKP, Solvay Dental 360 is committed to developing new and innovative materials that improve patient outcomes and advance the dental industry.

“Solvay is pleased to expand its high-performance healthcare polymer portfolio to the dental market,” said Jean-Pierre Clamadieu, CEO of Solvay. “This launch represents a significant milestone in Solvay’s transformation toward a multispecialty chemical group.”

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Every dentist wants to perform safe and efficient endodontic treatment to preserve patients’ teeth for as long as possible, but how can root canal therapy be easily integrated into everyday practice? With almost 150 years of experience in endodontics, VDW provides an impressive range of coordinated solutions today. International dental congresses, professional dental societies and commercial fairs are all places where VDW is happy to be and is always ready to answer questions and present its products and systems. VDW is part of the Dentsply Sirona group, the world’s largest dental company, and this will continue in the years to come; we will not abandon VDW as part of Dentsply Sirona. We will continue doing what VDW is best at: offering innovations and products for every day for the benefit of our customers and this requires clarity on the future direction—for our customers and our team. In the past, we managed to clearly distinguish VDW from Dentsply Sirona, and this will continue in the years to come; we will not advertise VDW as part of Dentsply Sirona. We will continue doing what we are best at: offering innovations for endodontics from Munich to the world. In markets in which both Dentsply Sirona and VDW can benefit from each other, we will certainly use Dentsply Sirona and VDW.GOLD RECIPROC remain the)
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We have been very happy with the improvement in quality of our RECIPROC systems. We are certainly working on new RECIPROC products in our pursuit of innovation and improvement. This is what VDW is known for and this is what we promise our customers: continuous innovation and we educate our customers and efficiency are unfamiliar to some dentists at first. Our solution is education, and we educate our customers throughout the world.

Proper irrigation and disinfection improve the likelihood of successful endodontic treatment. That is why you introduced EDDY, a new irrigation activation system, two years ago.

Yes, the major reason for introducing EDDY was that irrigation has remained relatively underestimated. There is still the belief that when the dentist places some liquid solution into the canal, it will do the rest itself. This can be compared to washing the dishes at home: one does not put the dishes into the sink filled with water, wait for an hour and then put the dishes back into the cupboard. The most probable cause of failure of endodontic treatment is insufficient irrigation and disinfection. The best way to achieve proper irrigation is in combination with the right instrument. Ultrasonic activation is still accepted as an effective way to activate an irrigant. Recently, independent studies have shown that EDDY is just as effective—and in some cases even more effective—but also safer owing to its polyamide tip. We did not even know of some of these studies and were certainly happy about their great, although not surprising, results. The adoption rate of EDDY is growing—and we have never lost a customer who has tried it.

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In 2005, ACTEON began its research into the potential applications of ultrasonic surgical tools in oral surgery and dentistry owing to an industry-wide lack of alternative treatment options. Today, ACTEON has scientifically proven that its Piezotome ultrasonic device significantly reduces postsurgical morbidity, is superior regarding soft-tissue preservation and enhances bone healing. As a result, thousands of dentists worldwide use the company’s well-known Piezotome device for bone surgery. At the 2017 International Dental Show (IDS) in Cologne in Germany, ACTEON presented the next step in superior andatraumatic osseous surgery procedures: Piezotome Cube.

The innovative intrasurgical device Piezotome Cube embodies minimally invasive surgery and is ideal for superior osseous surgeries. The advanced unit, as well as its handpiece and tips, are beautifully designed and offer clinical benefits with an emphasis on ultimate precision. Naturally intuitive, Piezotome Cube features the exclusive D.P.S.I. (Dynamic Power System Inside) smart assistance. Continuously monitoring and detecting variations in major criteria during surgical procedures (clinical gesture, pressure, tissue, tips), the system delivers immediate power responsiveness whenever it is needed.

This smart assistance can provide a 30 per cent increase in power for improved cutting performance or a decrease in power of 10 per cent when encountering delicate anatomical tissue, to be even safer. In addition, the upgraded Cube LED handpiece, based on the ACTEON six ceramitec rings, delivers more power than ever. Dedicated procedures can be conducted much faster, without any compromise between maximum power output and patient safety.

“Piezotome Cube is the best innovation in ultrasonic devices,” said Dr Angelo Trödhan, a leading oral surgeon and member of the TKW Research Group, which focuses on the development of tools for ultrasonic surgery. As a top expert in expanding alveolar ridges with widths of only 1 mm using a Piezotome Cube, Dr Trödhan stands fully behind this innovative device. “Piezotome Cube is the new gold standard in oral surgery,” he added.

Piezotome Cube: Minimally invasive procedures made possible

Piezotome Cube can be used for numerous non-invasive clinical procedures. The wide range of exclusive tips permits surgeons to broaden their surgical portfolio and inspires them to expand their expertise:

- Ultrasonic extractions preserving the supporting bone
- Accelerated orthodontic treatment (piezocision)
- Precise cervix lengthening
- Predictable healing after bone grafting
- Safe lateral sinus lift
- Crestal sinus lift, providing greater patient acceptance
- Crest splitting, leaving the periosteum intact
- Orthodontic bone stretching, offering an alternative to anaesthetised tooth extraction or repositioning of a malpositioned implant.

Piezotome Cube is compatible with all ACTEON surgical tips. Each of the well-designed surgical tips, strengthened by surface treatment, is extremely robust. Their vibration is perfectly controlled to perform fluid and smooth cuts. Furthermore, perfect irrigation flow is facilitated, reaching the tip’s end to avoid any risk of bone necrosis.

One-stage surgery in crest splitting

ACTEON has proven that Piezotome Cube represents a new approach to minimally invasive surgeries. It is particularly relevant in the flapless Piezotome-enhanced crest splitting and widening technique. This remarkable surgical technique enables implant insertion into a narrow alveolar crest. Prior to the development of Piezotome surgical devices, there was no means of cutting bone without the resultant bone loss during the procedure owing to the difficult handling of instruments such as oscillating saws and diamond-coated discs and their coarse way of working. “With Piezotome Cube, the surgeon does not have to tamce stubborn rotating instruments, but can concentrate on the task at hand,” said Dr Trödhan. Furthermore, only very experienced surgeons could use older instruments to perform vertical alveolar crest splitting while still maintaining the perfect geometry. The ultrasonic surgery allows precise and easy use for crests of only 1 mm in width. With older instruments, crest splitting was limited to alveolar crest widths of more than 3 mm.

A key advantage of performing crest splitting with Piezotome Cube is that only one surgery is necessary for the bone grafting and implant placement, leaving the bone-periosteum system intact. During implementation, Dr Trödhan found that “70 per cent of patients lack adequate crest width, especially when an alveolar crest 0.5 mm wide is necessary to receive a 4.0 mm diameter implant in the molar region”. The older techniques widened the alveolar crest by transplanting autologous bone blocks to the narrow crest. This procedure is known to be very traumatic and challenging to perform. In contrast, the ultrasonic crest splitting technique is extremely precise and the tiny bone fracture heals very well because of the enhanced accuracy and auto-stabilisation. Hence, the risk of implant failure is lower than with other, older procedures. Piezotome Cube is best suited for pre-implantation surgical procedures because of its precision and ability to achieve bone cuts with minimal bone loss. “I have the feeling that the piezisurgery is a huge innovation”, stated CEO Marie-Laure Pochon.

Innovative Piezotome Cube facilitates OBS technique for ankylosed teeth and malpositioned implants

Dr Philippe Bouquet is a specialist in a new orthodontic bone stretching technique that permits repositioning of infra-occluded ankyllosed teeth or movement of severely malpositioned implants.

Dr Marcel Wainwright (left) and Dr Angelo Trödhan.

“Unfortunately, conventional osteotomy techniques are not suitable for ankylosed teeth or movement of severely malpositioned implants. The Piezotome Cube surgery because of their negative experiences with price surcharges or postoperative pain and swelling, ACTEON’s ultrasonic Piezotome Cube surgery because of their negative experiences with price surcharges or postoperative pain and swelling.”

Atraumatic procedures relegated to the past

Crest splitting and the OBS procedure highlight just some of the many advantages of Piezotome Cube. Patients are increasingly choosing ultrasonic Piezotome Cube surgery because of their negative experiences with price surcharges or postoperative pain and swelling. ACTEON’s goal is to improve patients’ lives. Postoperative interviews have shown that Piezotome surgery has made a very positive impact on patients’ lives: “The surgery with Piezotome was my last hope for having a beautiful smile again. My confidence has completely returned thanks to Piezotome surgery,” one patient said.

Surgery using Piezotome Cube leaves a small wound of only 0.55 mm, much smaller than what would result from a tooth extraction. Patients experience less postoperative morbidity and reduced postoperative complications, with 87 per cent having no postoperative pain and 86 per cent not swaying whatsoever. Moreover, the reduced healing period contributes to the patient’s well-being and only one surgery is needed. “Getting my smile back helped me get my life back,” said a patient from Sweden. “It’s our mission to have the best treatment possible for the patients,” explained Marie-Laure Pochon.

ACTEON's ultrasonic Piezotome Cube restores smiles

Dentists welcome a new team member

Dr. Philippe Bouquet (left) and Dr. Angelo Trödhan.
Align Technology announces agreement with Zfx

Align Technology has announced that it has entered into an agreement with Zfx in order to expand its restorative and laboratory network for iTero Element intraoral scanners in major European, Asian and African countries. The collaboration will give practitioners and dental laboratories easy access to iTero intraoral scans, improving the restorative digital workflow and enabling them to produce high-quality dental prostheses.

Through the non-exclusive agreement, digital prosthetic solutions specialist Zfx will serve as a sales agent for iTero Element intraoral scanners within its network of laboratories, milling centers and dental professionals. In all Zfx-supported regions, iTero scanners will be used via an open-architecture approach with systems that enable users to take advantage of the Zfx-preferred digital milling and laboratory services.

Only recently, Align Technology announced that the 1 millionth scan had been submitted using the iTero Element scanner since its introduction in 2015. Customers interested in the iTero Element scanner may contact their Zfx agent or can request a demonstration from Align Technology via the contact page at www.itero.com.

ZEISS dental microscope introduces breakthrough augmented visualisation

At this year’s IDS, ZEISS is presenting EXTRARO 300, which is poised to revolutionise and differentiate dental practices with augmented visualisation, digital patient communication and single-handed operation. The dental microscope supports dentists in restorative dentistry, endodontics and all fields of dental surgery to achieve the highest level of performance and results—both functionally and aesthetically.

Augmented visualisation

The Fluorescence Mode in ZEISS EXTRARO 300 supports efficient repair of caries-affected fillings and is designed to distinguish between natural hard tooth tissue and the most commonly used dental composite resins. This clear visual differentiation will help target the affected area quickly, saving valuable chair time during removal of carious tissue.

Dr Marko Jakovac, Associate Professor at the School of Dental Medicine of the University of Zagreb, reported, “For removal of old restorations, the autofluorescence functionality of ZEISS helps me to locate the decay as quickly as possible and to avoid removal of healthy tooth substance.”

The TrueLight Mode provides sufficient time to finish complex modelling tasks by preventing the premature curing of composites under the microscope. Unlike with orange filters, the new optimised colour balance still allows the clinician to identify the relevant dental tissue.

Single-handed operation

All capture and visual modes can be activated at the push of a button, and dentists can adjust the unprecedented focal length of 200–430 mm with only one finger.

Making ZEISS EXTRARO 300 part of the dental practice not only helps improve comfort, but also makes treatment more efficient.

1 Fluorescence Mode for caries detection is not available for sale in the US, requires 510(k) clearance by the FDA and may be subject to change. Not for sale in every market.

2 See user manual.

Heron IOS: A solid entry into the intraoral scanner market

An interview with 3DISC CEO Sigrid Smitt Goldman

At the recent International Dental Show (IDS), global dental imaging technology specialist 3DISC launched Heron IOS, its new intraoral 3-D scanner designed for taking digital impressions. At the company’s booth at the trade fair, today international met with Sigrid Smitt Goldman, CEO and Executive Chairman of 3DISC American, to learn more about the device and the importance of digital technology in the dental practice.

Ms Smitt Goldman, what are the main features of the new intraoral 3-D scanner?

The Heron IOS is a solid entry into the intraoral scanner market for 3DISC. It is a device that was really created for dentists rather than the laboratory and therefore has some unique features.

The first one is weight: at only 183 g, it is a very lightweight device, making it much easier to hold and handle. Many competing products are significantly heavier, around 600–700 g.

Another important aspect for us was the ergonomics. Dentists have to perform many tasks one-handed, so any device needs to be operable with one hand. In contrast to other scanners, the tip of the Heron IOS is rotatable, allowing scanning of the upper and lower jaws, as well as the sides, without having to rotate the whole device, with the best possible ergonomic grip.

It is also very fast, allowing the dentist to perform a full-arch scan in less than 5 minutes.

Intraoral scanners have been around for some time. However, not many dentists seem to have adopted this technology in their daily practice. Why is that in your opinion, and is this situation going to change in the near future?

You are right; we are currently still at a very low adoption rate of about less than 10 per cent worldwide. However, I think this is a technology that is coming out of its infancy and is getting to a level at which it is reliable and exact enough to be a genuinely useful tool.

The pioneers of this technology have done a great job in introducing it to the market, but it has still been too difficult to use, impression taking took too long, a great deal of post-work was required, and it was often not affordable or profitable for the dentist.

Therefore, our main aim is to educate dental professionals and convince them of the benefits this technology holds in contrast to conventional analogue impressions that dentists have been taking for many years. It has reached a great level of reliability and can be a timesaver for the user and increase patient comfort.

I am convinced that, in the near future, the whole digital workflow will be a major selling point for dentists. By combining the scanner with other digital items, they could offer restorative work in one day—something that patients will start looking for and prefer.

How has the scanner been received by IDS visitors, and when will it be available?

We have received great feedback from the visitors at the show. Shipping of the Heron IOS will start in the fourth quarter of this year. More information can be found on our website, www.3disc.com.

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