

DENTAL PROFESSIONALS ONLY

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Endodontics white paper calls for treatment to consider patient health

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Tooth whitening and orthodontics: The icing on the cake

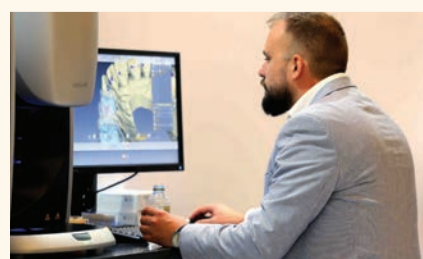
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Plaque bacteria prove no match for guided biofilm therapy

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14th CAD/CAM & Digital Dentistry Conference & Exhibition Highlights



Dentsply Sirona at IDS 2019

Innovative and efficient: Dentsply Sirona presented itself as a new, dynamic and agile company and impressed at the IDS 2019 with substantial products

By Dentsply Sirona

Spread over two booths with a total of more than 2,000 square meters, Dentsply Sirona made a spectacular impression at the IDS 2019. Bringing to life the motto "Inspired by your needs," the world's largest manufacturer of dental products and technologies presented innovations that are set to have a sustained impact on dentistry. The products presented, such as Primescan, play a key role in helping dentists and dental technicians provide their patients with optimal treatment. The Dentsply Sirona team, wearing matching blue and orange sneakers, demonstrated a unified spirit in presenting Dentsply Sirona as a customer-centric company.

"At IDS 2019, we demonstrated that 'Inspired by your needs' is much more than just a motto for us," said Don Casey, CEO of Dentsply Sirona. "Our mission is to translate the needs of dentists into products. We have shown over these five days that we can make a difference for dental professionals with our investment in R&D, education and training. Dentsply Sirona has presented itself as a new, dynamic and agile company that focuses on one thing above all else: the customer. More than 14,000 live demonstrations at the IDS booth and 300 product courses in one week underline this impressively. It is this interaction with our customers that drives us forward as a company and complements our \$150 million annual investment in R&D."

Innovations that will have a major impact on dentistry of the numerous innovations that Dentsply Sirona presented at its two booths, Primescan, the new intraoral scanner for CEREC and digital impressions, stood out by far. In the more than 100 live treatment pro-



The Dentsply Sirona team at IDS 2019

cedures on two stages directly at the booths, visitors could see for themselves just how quickly, easily, and precisely impressions can be produced with Primescan. A whole-arch scan of previously unseen accuracy can be produced with Primescan in less than one minute, making this product a versatile partner for all areas of dentistry from restorative treatments and orthodontics to implant dentistry. One example of this is the fully digital production of SureSmile Aligners for straightening teeth. For this, the scan is combined with a 2D X-ray and a photo of the patient. Seamless, validated interfaces simplify the process noticeably, giving dentists the flexibility they desire.

Surefil one, an innovative filling concept for the posterior tooth region, also attracted a high level of interest. The self-adhesive restoration material combines the simplicity of a glass ionomer with the stability of a conventional composite and also has good esthetic properties. This allows a cavity to be treated in just one layer without retentive preparation. This makes the entire treatment process four steps shorter, cutting the treatment time by about seven minutes. Visitors to the booth were able to experience the innovations first hand in live demonstrations and even try them out themselves on the model.

More interaction, more training

Dentsply Sirona used the IDS 2019 to engage in in-depth discussions with customers and partners. The survey "1 profession. 1000 jobs." provided a great starting point for this – numerous visitors to the booth took part at www.1profession1000jobs.com, and the results confirmed beyond doubt that, in addition to treating patients, dentists and dental technicians perform a whole range of other tasks. The company received a wealth of feedback from the countless discussions held at the booths. As a token of appreciation, visitors were presented with a Dentsply Sirona rubber duck: "Resto Rebecca", "Preventive Preston", "Lab Lara" and their brightly colored colleagues soon became the stars of the tradeshow. The cheerful ducks, featuring a dental design, almost became collector's items and, at the end of the five-day tradeshow, more than 12,000 ducks had found a new home.

The popular photo opportunity at the Treatment Centers booth was once again a real crowd pleaser. Visitors were able to pose for their personalized cover of the new *trendS* magazine containing details of the four new international design trends for practices in 2019/2020. More than 2,500 tradeshow visitors said

"cheese" and received their personalized copy of the magazine.

Over 14,000 demonstrations were held to explain the new products and how they function to visitors to the booths. In addition, more than 3,000 dentists and dental technicians took the opportunity to participate in training events. The focus here was on treatment plans for endodontics as well as issues relating to digital imaging and dental technology.

At the Implants booth, visitors were able to find out more about Azeno, the latest workflow solution for single tooth replacement that enables practices to provide consistently excellent customized implant treatment. And in the spirit of customization, over 2,500 visitors received a personalized Azeno milkshake with their selfie printed on top.

The very best support for day-to-day work with patients

"The feedback from our customers has confirmed that our dedicated team has worked on the 'right' product solutions that make a real difference in everyday practice," Casey reflected. "It was also impressive to see how much the Dentsply Sirona team has grown together – visually expressed by our IDS sneakers."

Note – due to different approval and registration times, not all technologies and products are immediately available in all countries. [DTI](#)

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More than 100 live treatment procedures on the stand.



The Dentsply Sirona stand, spread over two booths with a total of more than 2,000 square meters.



The Dentsply Sirona IDS 2019 Press Conference



Over 14,000 demonstrations took place on the Dentsply Sirona stand at IDS 2019

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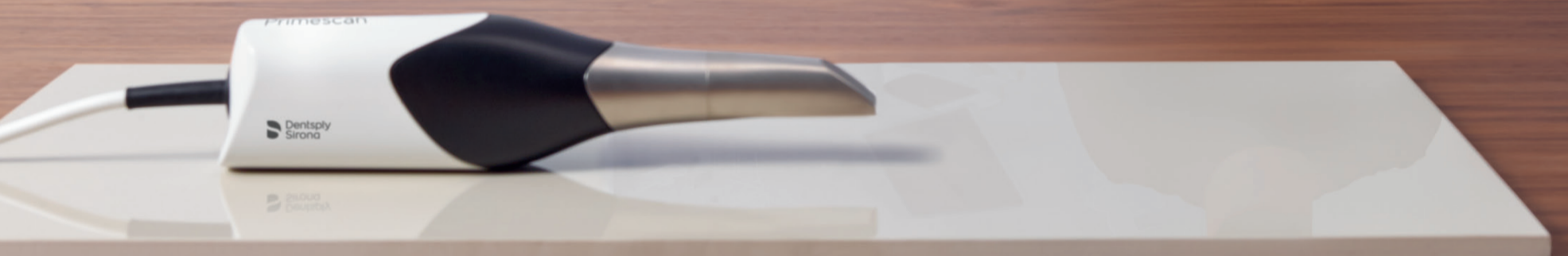
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Florian Sobirey, UX-Designer



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Learn more at: dentsplysirona.com/primescan

Gunnar Reich, Germany

The next generation polyether: Superfast. Super detailed.

Taking outstandingly precise impressions in an efficient procedure – this is feasible for everyone using the new 3M™ Impregum™ Penta™ Super Quick Polyether Impression Material launched by 3M in April 2018. The material offers a working time of 45 seconds and an intraoral setting time of only two minutes.

It is thus as fast as or even faster than many quick-setting VPS-based impression materials and particularly suited for impression taking in the context of producing single-unit restorations or small bridges. In addition to the increased speed, it offers all proven polyether benefits that lead to a reliable clinical performance and highly accurate results. These include a great flow behavior and an intrinsic hydrophilicity, i.e. high affinity to water, which ensure that the material flows deeply into the sulcus and captures every detail. In addition, polyethers maintain their flowability consistently throughout the

whole working time, meaning that a user does not need to be afraid of any premature setting reaction that may have a negative effect on the quality of the final impression.

The use of the new material developed for the monophasic technique – 3M™ Impregum™ Penta™ Super Quick Medium Body Polyether Impression Material – is demonstrated showing two different patient cases.

The first patient had a fractured composite restoration on her lower first molar that needed to be replaced. The second patient had previously received an implant in the region of the upper first premolar. After the healing phase, the final prosthetic work needed to be produced and placed. A closed tray impression technique was used in this case.

Case 1

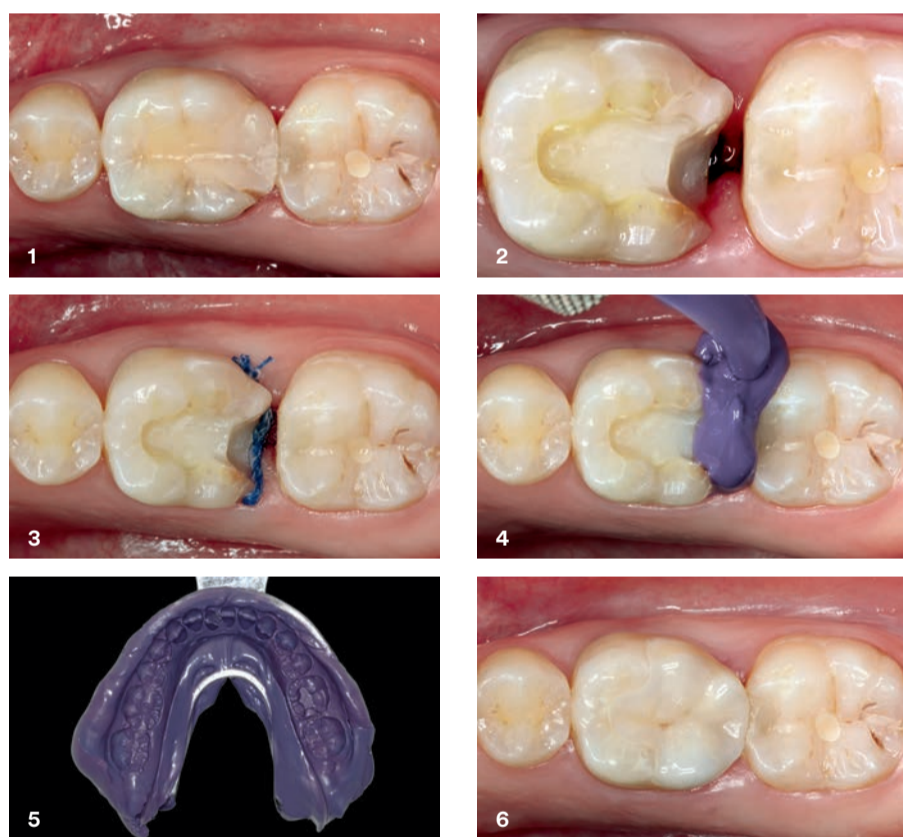


Fig. 1: Initial situation of case 1: Fractured old composite restoration on the lower first molar.

Fig. 2: Deep distal preparation with bleeding from inflamed gingival tissue.

Fig. 3: Challenging moisture control and bleeding managed by using a soaked retraction cord.

Fig. 4: Impression taken with the monophasic technique. Syringing of 3M™ Impregum™ Penta™ Super Quick Polyether Impression Material (Medium Body) around the preparation with the 3M™ Penta™ Elastomer Syringe.

Fig. 5: Final monophasic precision impression made of 3M™ Impregum™ Penta™ Super Quick Polyether Impression Material (Medium Body).

Fig. 6: Final situation: 3M™ Lava™ Esthetic Fluorescent Full-Contour Zirconia restoration cemented with 3M™ RelyX™ Unicem 2 Self-Adhesive Resin Cement.

Case 2

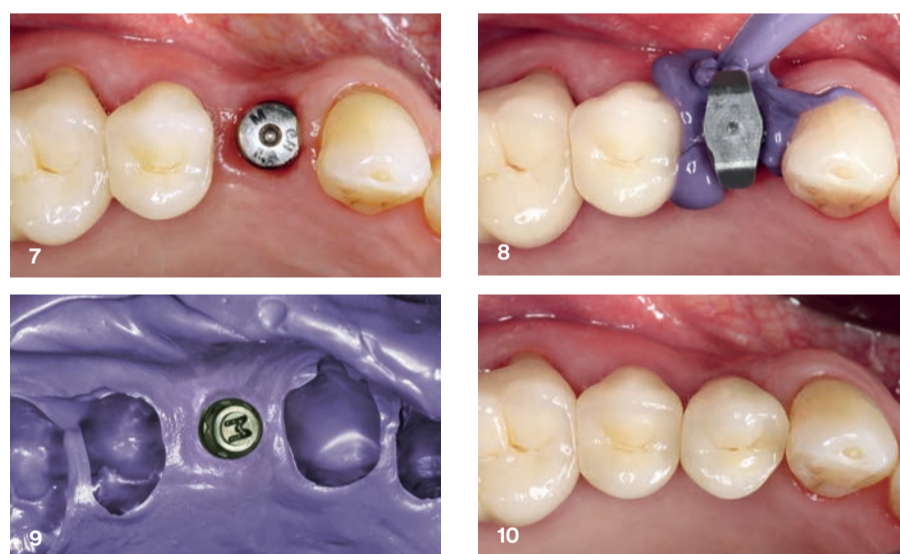


Fig. 7: Initial situation of case 2: Implant with healing cap six months after implant placement.

Fig. 8: Syringing of 3M™ Impregum™ Penta™ Super Quick Medium Body Polyether Impression Material around the impression coping with the 3M™ Penta™ Elastomer Syringe.

Fig. 9: Impression coping securely fixed in the impression that was taken using the monophasic technique and a closed tray.

Fig. 10: Final veneered all-ceramic crown cemented on an implant abutment.



Dr. med. dent. Gunnar Reich

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Dr. Gunnar Reich attended the Universities of Munich and Berlin and obtained his Dr. med. dent. (DDS) degree in 1986. Ever since, he has been practicing dentistry in the South of Germany. Today, he is the owner of a private practice in Munich.

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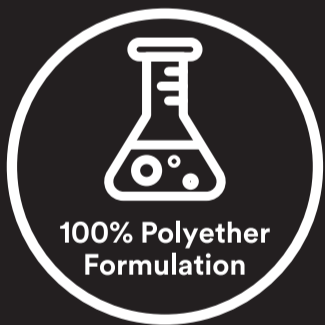
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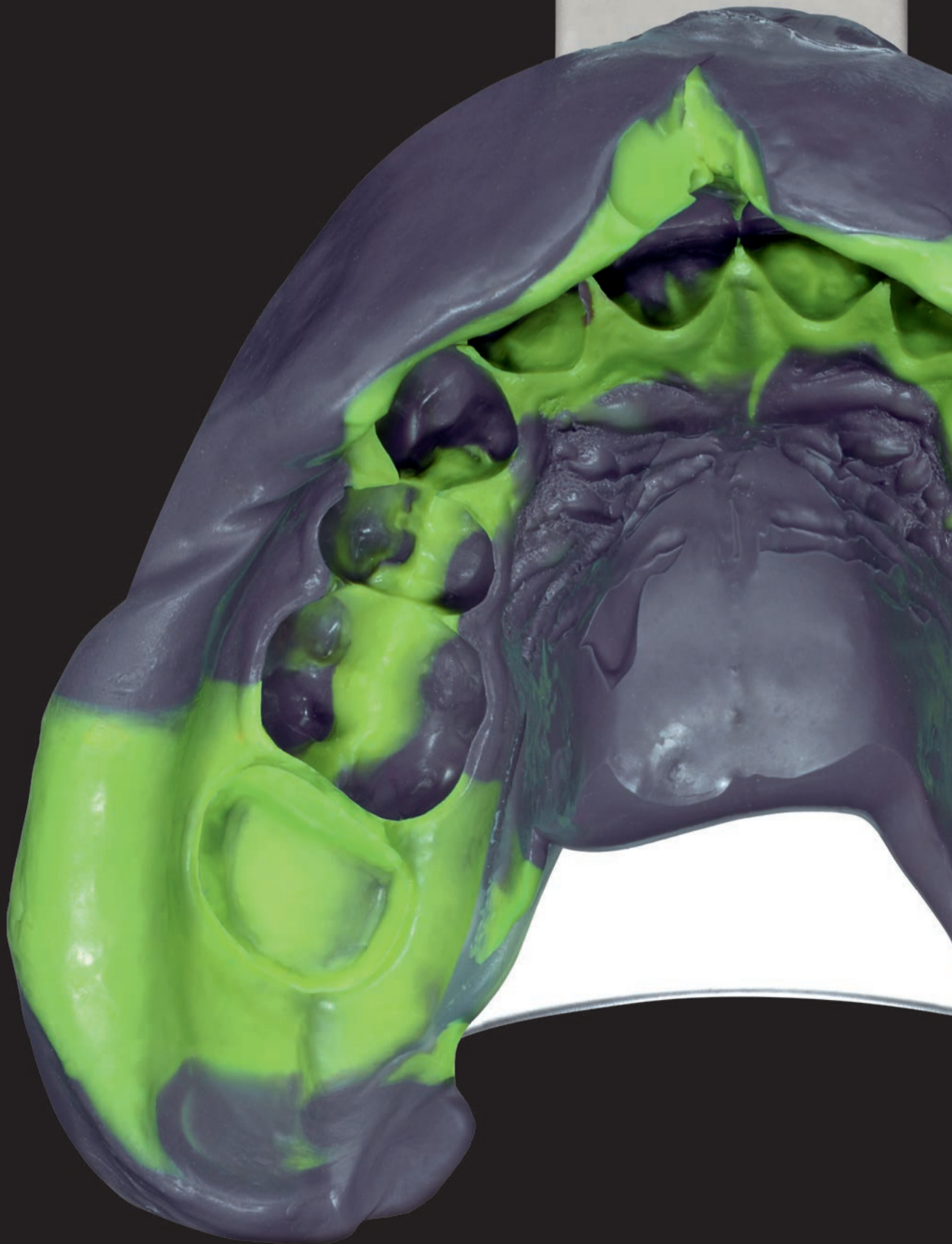
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3D Printing in Dental: Ready for Adoption by the Majority

By Rik Jacobs, The Netherlands

Last year I published an article on LinkedIn: "3D Printing: Sustainable Additive Innovations Transforming the Dental Industry." In this article, I shared my vision and journey to re-define digital dentistry with innovations in additive technology. It summarizes 10 years of advancements that have culminated in the NextDent 5100—a plug-and-play system with a trusted connection, hardware, firmware, software and biocompatible, certified dental materials.

Beyond biocompatibility, the most important requirement for a dental technology or product is quality assurance in terms of accuracy and fit. In order to improve oral care, predictable quality and the performance of a medical device is necessary. As a result, the dental industry has transitioned from cumbersome analog solutions to digital subtractive technologies. In looking at analog versus digital techniques, it was obvious to me that stable quality became more predictable with the use of the scanning and software solutions that have been introduced over the last several years. Yet with all the benefits these digital subtractive solutions have brought to the industry, they have essentially hit their limits. This is why an additive solution made so much sense to me after more than 20 years in the dental industry.

Additive manufacturing brings complete freedom of design enabling

complex geometries that are unattainable with subtractive solutions. The speed at which parts are created can be up to 4X faster for different indications often at lower cost than possible with subtractive. Finally, with subtractive solutions environmental waste can be many times larger than the weight of the part itself; and near zero with additive solutions. These reasons reinforced my belief that additive manufacturing was the perfect technology for multiple dental applications: models, surgical guides, try-ins, dentures, long-term temporaries, copings, frames, trays and orthodontics. In any dental lab or clinic, the technicians could be addressing several of these in any given day. Additive manufacturing solutions provide the flexibility to address multiple applications and just-in-time production. This was the motivation for producing the NextDent 5100 solution. I saw the need for a robust quality dental production printer with rapid printing speeds, flexibility to change materials, ease-of-use, and biocompatible certified materials.

In the months after Lab Day 2018, we were busy optimizing the NextDent 5100 printer and materials with feedback from our global beta testers to ensure that once shipped, the printer would fulfill our promise and perform in accordance with the intended use. Through this collaboration with our beta testers, the advancements we've been able to make in the last 12 months are comparable



Rik Jacobs - VP, GM for NextDent 3D Systems



to what the dental industry achieved in the 10 years that preceded them. I couldn't have been prouder when we shipped our first NextDent 5100s to our end users, and have been delighted with the reports from labs and clinics on how it's transforming workflows and capabilities. Much of the feedback was validation of the benefits and outcomes we anticipated in terms of speed, accuracy and cost. Even more exciting, however was all the positive activity in regards to things we hadn't even thought of. For example, we saw the birth of the "NextDent Users' Group" on social media without any intervention on behalf of 3D Systems. This user group is comprised of thousands of bright dental industry professionals who share their experiences and knowledge with one another. We've seen this group experimenting with new indications in light of the NextDent 5100's capabilities resulting in impressive applications such as staged printing or new indications like full arch implant bridges and dentures on implants.

A successful worldwide distribution would not have been possible without our highly knowledgeable and responsive resellers, who are also qualified as certified medical device distributors. We made a conscious decision as part of our strategy to only work with qualified, certified dental and medical device distributors. Additionally, we chose resellers who have proven themselves to be experienced dental CAD/CAM service providers. We believe the certification, experience and expertise

will help ensure our customers will receive the highest levels of service and support as they incorporate the NextDent 5100 to transform their workflows. I am confident we selected the right resellers by following our rigorous qualification procedure.

While our 3D Systems NextDent team has been convinced for several years that the market was ready for our solution, we were glad to see proof of our conviction through a number of unsolicited external validation points:

- In the top 10 list of new dental products for 2018, the top 4 were all newly launched 3D printers, which proves this industry-changing technology has been making a huge impact. (DentalCompare)
- 3D printers were named the second leading technology (after digital x-ray sensors) in the category "Running Away in 2018." This category of products dominated media coverage and received the most attention throughout the year. 3D printing only missed out on being number one by a handful of hits. Much like cone beam systems, 3D printers hold the possibility of shaking up restorative, orthodontic, implant, and general dentistry in countless ways. (DentalCompare)
- Traditional lines are being blurred for dental care providers due to the consolidation going on by Dental Service Organizations, as well as within clinical and lab settings.
- The Dentalcompare "most popular dental article of 2018" focused on 3D printing. In fact it was a Q&A with me that occurred shortly after we announced the NextDent 5100 at Lab Day 2018. This was validation that people were keenly interested in the solution we were bringing to the market.
- Advancements in key areas like scanning, software, materials - combined with the 3D printing quality of the NextDent 5100 - enable the accuracy required for 3D printing to reach the tipping point in the dental industry in 2018.

This is all to say that the timing of the NextDent 5100 printer could not have been better. We formulated new biocompatible materials to take advantage of unparalleled printer accuracy and speed delivered by the most experienced 3D Printing OEM. We implemented a scanning system with a matrix code on the bottle to show relevant authorities

that we have secured our certification approval so labs and clinics can have complete confidence in their work. We integrated 3D Systems' 3D Sprint software, which we optimized for ease-of-use and with a trusted connection with dental software suppliers. Then, in the second half of 2018 we received the official Class II certification for our NextDent Micro Filled Hybrid Crown and Bridge material in six different colors. In November, we proudly announced that the NextDent5100 became part of the Ceramill workflow as a result of a close cooperation with Amann Girrbach. For all dental applications, we ensured the 3D printed output was specifically designed for the intended use and took cost into consideration - minimizing the cost per job based on the printer price and waste savings. All this within our first year, and we are rolling into 2019 with an incredible degree of positive momentum and market support.

We take our responsibility very seriously to deliver long-term performance and safety, and we continuously review clinical events specific to defined patient populations, as well as within more representative populations of users and patients. Post-market surveillance is an integral and ongoing part of delivering a quality system and is a regulatory requirement we uphold with the highest priority.

Close cooperation with our resellers and our early adopters/new NextDent key opinion leaders has proven critical and informative. We also recently founded a users' group for the NextDent community that represents a global pool of experienced users in the clinical, laboratory and educational environments. [DTI](#)

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The new eye-catching W&H logo. The design is clearer and more focused.

New corporate design for W&H

W&H has a fresh new look: the renowned medical technology company has a new, even more modern corporate design to go with its new strategic orientation.

By W&H

Under the motto, 'Simple. Clear. Modern.', W&H has created an image that shows it's ready to take on the future. New logo, new font, more designs and colours – perfect for all digital channels. The aim of the relaunch was to achieve a gentle, but still clearly noticeable change that would outwardly reflect the rapid development of the W&H Group whilst staying close to the W&H core values.

"W&H has developed from a supplier of products into a provider of solutions, and is offering more and more digital solutions to support everyday practice. W&H's product range boasts innumerable innovations, with products that are easy to use, reliable and feature a modern design. This is exactly what should be reflected by the corporate design. The new design strengthens W&H's profile in relation to its competitors. W&H has also defined individual brand identities for the new business areas W&H Med and W&H Vet," says Anita Thallinger, Director of Marketing, on the subject of the new corporate design.



The aim of the was a gentle, but still clearly noticeable change that would outwardly reflect the rapid development of the W&H Group.



New logo, new font, more designs and colours – perfect for all digital channels.

W&H logo remains the central element

The corporate design, which was produced in collaboration with Gerhard Andraschko-Sorgo and his design and advertising agency "Linie 3", immediately catches the eye. The central element of the W&H logo, the hexagon shape, remains the same. However, the design is now clearer and more focused. Together with the new corporate font "Neue Hel-

vetica World", W&H's look has been given a new burst of energy thanks to a range of additional colours that complement the traditional apple green, as well as a modern image and design language. In order to create a clear distinction between the two new business areas W&H Med (human medicine) and W&H Vet (veterinary medicine), the former features a dazzling cyan blue, and the latter an eye-catching turquoise green.

Experience W&H online

For W&H, usability for customers is essential. Which is another factor that influenced the new corporate design. As part of the relaunch, the website has also been revised. It is now fully responsive, looks much more modern and has more space for products and digital content. Large images and a new navigation tool make browsing much easier and encourage customers to explore the

world of W&H. "Our international websites have featured the new corporate design since the middle of March. By the end of the year, the new corporate design will be visible across all channels and countries", says Anita Thallinger on the relaunch of the wh.com website. [DT](#)

For more information, please visit: wh.com

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3Shape wins two Red Dot design awards

By DTI

COPENHAGEN, Denmark: 3Shape, a global leader in 3-D scanners and CAD/CAM software solutions, has received two prestigious Red Dot awards for high-quality product design. The two design awards were presented to the just-released 3Shape TRIOS 4 intra-oral scanner and the TRIOS MOVE+.

The 3Shape solutions were selected by the Red Dot global jury from

more than 5,500 entries. The distinction marks the fifth and sixth 3Shape solution given a Red Dot product design award over the past three years.

Nikolaj Deichmann, 3Shape co-founder and co-CEO, said: "We are very proud to receive the Red Dot awards and appreciate the jury's recognition. The awards not only highlight the value of our solutions, they also celebrate our company's design philosophy. 3Shape creates solutions to enable dental professionals to bet-

ter care for their patients. But an important part of that is making sure that the form and function of our solutions is equally outstanding. The Red Dot awards acknowledge this."

3Shape TRIOS 4 is the world's first intra-oral scanner that allows for timely detection of both surface and interproximal caries with a single scanner. Now with the release of the brand-new TRIOS 4, intra-oral scanners will no longer be used only for restorative and orthodontic applica-

tions. These are diagnostic applications that do not emit radiation. The wireless TRIOS 4 delivers its caries innovation without compromise to ergonomics or an increase in the size and weight of the scanner.

3Shape TRIOS MOVE+ is one of three hardware set-up options for the TRIOS intra-oral scanner. TRIOS MOVE+ now features a larger 15.6 in. touch screen attached to an arm and an elegant, easy-to-move stand with a mounted PC. Dentists can

easily move and position the TRIOS MOVE+, as well as use its touch screen as a canvas to design and discuss treatments with patients. TRIOS MOVE+ helps to drive patient involvement and case acceptance in conjunction with 3Shape patient excitement apps like TRIOS Treatment Simulator and TRIOS Smile Design. ^[1]

The new Chiropro & Chiropro PLUS

Bien-Air Dental unveils its new range of implant and oral surgery motors

By BienAir

BIENNE, Switzerland: During the 2018 EAO congress, Bien-Air Dental presented its two new implant and oral surgery motors, the new Chiropro and the Chiropro PLUS.

Designed to simplify the fitting of implants as well as oral surgery procedures, the new Chiropro and Chiropro PLUS have been fully developed around a single philosophy: Simplicity.

A single control knob allows you to control the entire system. Simply turn the knob to navigate via the menus and adjust the settings, and press it to confirm the selected value. Moreover, the control knob – the only point of contact between dentists and the unit during procedures – can be easily removed and sterilised to simplify maintenance. Thanks to their clear and concise interface, the new Chiropro and Chiropro PLUS plainly display all the information required for procedures to go smoothly: type of instrument, speed, torque, irrigation flow and direction of rotation. Pre-set operating protocols and the option to modify settings based on patients' dental features, also make the new Chiropro and Chiropro PLUS easier to use.

Although these two systems are both easy to use, the new Chiropro and Chiropro PLUS have different fields of application. Whereas

the new Chiropro is mainly dedicated to implantology procedures, the Chiropro PLUS enables you to perform both implantology procedures and oral surgery procedures.

Owing to the fact that each clinical discipline requires a very specific group of instruments, the new Chiropro and Chiropro PLUS units can be connected to the relevant micromotor and rotary instrument required for each procedure.

Implantology

Powered by the Chiropro (Chiropro PLUS resp.), the new MX-i micromotor (MX-i PLUS resp.) and CA 20:1 handpiece combine to offer you the very best rotary technology for all your implantology procedures. Coupled with the MX-i micromotor (MX-i PLUS resp.), the CA 20:1 handpiece provides an exceptionally stable speed, for precise and smooth procedures. As well as offering an unparalleled service life, the CA 20:1 handpiece is fitted with a brand-new internal irrigation system. The irrigation line will not inconvenience dentists when they are using the handpiece.

Oral surgery (including wisdom tooth extraction)

Combined with the PM 1:2 straight handpiece and the MX-i PLUS micromotor, the Chiropro PLUS is the ideal solution for oral surgery procedures, and wisdom tooth extraction in

particular. Thanks to the high power of the PM 1:2, the cutting time is reduced by 70% (just 12 seconds to fully section a tooth) and the force required is significantly reduced. The risk of overheating is considerably lowered thanks to the self-cooling system built into the MX-i PLUS.

Oral surgery & periodontology

You can also carry out oral surgery and periodontology procedures using the combination of the Chiropro PLUS, MX-i PLUS micromotor and the new CA 1:2.5 handpiece. The angular shape of the handpiece proves better suited to the target operating area than a straight hand-

piece, and the high torque of the MX-i PLUS and its built-in self-cooling system guarantee procedures can be performed quickly without the instrument overheating, even during long and complex procedures. ^[2]

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Bien-Air Chiropro PLUS (right)



Bien-Air new Chiropro (front)

AD

60 years

NEW TORNADO X

ultimate reliability

60 MONTHS OF WARRANTY
YEARS OF KNOW-HOW

60 years

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60 years of know-how and passion is the secret that leads Bien-Air Dental today to offer exceptionally reliable products. Discover all our expertise and attention to detail in the new TORNADO X turbine.

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