Prosthodontist achieves same-day dentures with NextDent 5100

Dr. Michael Scherer transforms patient experience and expedites dental production with the NextDent 5100 3D printer

By 3D Systems

Dr. Michael Scherer is a prosthodontist in Sonora, California, located ten miles from the heart of the Stanislaus National Forest and 100 miles southeast of Sacramento, the nearest city. A long-time advocate of technologies that help him enhance patient care, Dr. Scherer transitioned to intraoral 3D scanning several years ago to spare his patients the uncomfortable and messy experience of taking composite impressions. Eager to extend the value of these digital scans, he began experimenting with 3D printing. He ordered two 3D Systems’ NextDent™ 5000 3D printers for his office shortly after its launch and says they provide him with an all-in-one solution for producing actual 3D printed dental restorations at an efficient time point.

Due to Dr. Scherer’s rural location, his patients typically travel anywhere from 30 minutes to several hours to get to his office. For dentures, implants and bridgework, multiple visits are common practice to address various stages of traditional fitting and delivery. The need for multiple appointments to achieve a conventional restoration can make treatment time consuming and challenging for the patient; a burden Dr. Scherer hoped to alleviate through in-office 3D printing. Dr. Scherer reports that the addition of the NextDent 5000 printers to his office has accelerated his workflow and changed his patients’ experience, and says he can no longer imagine his practice without them.

Fast print speeds enable same-day dentures

The new capabilities in dental care enabled by the speed, accuracy and esthetics of the NextDent 5100 3D printer have helped Dr. Scherer deliver a superior patient experience. In particular, the ability to cut total denture delivery time from five or six appointments to a process that can be completed in the same day. For elderly patients who rely on others for transportation to and from appointments, Dr. Scherer says this new capability makes treatment possible by removing logistical hurdles. “The NextDent 5100 enables me to do things in my office—like expe-

dited dentures—that I couldn’t do before, and it’s having a real impact on my patients’ lives.”

3D Systems’ NextDent materials are biocompatible and CE-certified, and are available in a wide selection to answer a broad range of clinical needs. This allows Dr. Scherer to use the NextDent 5000 not only for same-day, long-term dentures, but for expedited implants, crowns, bridges, bite guards and more. “Combining intraoral scanning technology with fast, accurate and esthetic 3D printed teeth is the great, bring-it-all-together moment we’ve been waiting for in dentistry for years,” Dr. Scherer says.

To illustrate his case, Dr. Scherer cited an anonymous example of a patient who was moved to tears after receiving their denture in a same-day appointment. “I got the NextDent 5000 printer for patients like that, who need an answer for treatment that makes it feasible,” Dr. Scherer says. Due to the loss of a loved one, the patient told Dr. Scherer they could no longer make multiple long drives for sequenced appointments. Understanding that, Dr. Scherer assured them the denture could be done in a single visit using innovative methods.

Eager for treatment, the patient made an appointment and came in the morning for an intraoral scan. Dr. Scherer used the digital model to plan the denture, and his assistant ran the 3D printing. Dr. Scherer reports that printing the denture and the partial denture in the same afternoon versus the temporary took ten to fifteen minutes. Saying they never imagined how beautiful 3D printed dentures could be, the patient told Dr. Scherer they could no longer make multiple long drives for sequenced appointments. Understanding that, Dr. Scherer assured them the denture could be done in a single visit using innovative methods.

Smaller models like this can be printed in as little as 10 minutes with the NextDent 5000 printers. Dr. Scherer says this capability has led to effective word-of-mouth marketing because he is now able to accommodate patients with service that exceeds expectations: “I frequently have patients who break teeth right before a big trip or life event, and with 3D Systems’ NextDent printer I can now offer treatment in the same afternoon versus the temporary patches that are common practice using conventional techniques.”

Accurate & aesthetic 3D printed outcomes minimize adjustments, maximizing doctor time

According to Dr. Scherer, the accuracy of the 3D printer contributes to shorter delivery times and an enhanced patient care. As well, “The fact that the NextDent 5000 can produce models and dental prostheses in minutes instead of hours and achieve accuracy under 100 microns is a game changer for 3D printing in dentistry,” Dr. Scherer says. Explaining the accuracy and speed, he also ensures he deliver the highest quality care.

With traditional molds and poured stone models, Dr. Scherer says fitting crowns, implants or bridges can take thirty minutes to an hour of adjusting to achieve the right fit. With 3D print-
ning, fitting the same type of restoration takes significantly less time to adjust. “Doctor time on the computer is money well spent, because I find I am spending less time to fit prostheses due to the accuracy of the prints. Being able to shave off 20- to 30-percent of my clinical time more than pays for itself,” Dr. Scherer says.

The NextDent 5000 is powered by 3D Systems’ Figure 4 technology and uses Digital Light Printing (DLP) with a non-contact membrane that delivers high quality, accurate outcomes on delicate parts. 3D printed support structures are also simple to add and fast to remove with 3D Sprint® software, reducing the post-processing time substantially and helping ensure undamaged parts. According to Dr. Scherer, “On another printer, just to remove the support ing supports can take ten to fifteen minutes. On the NextDent 5000 it takes maybe 30 to 60 seconds. And that includes polishing.”

Improving the dental profession with digital dentures

In addition to his work in practice, Dr. Scherer teaches courses on 3D printing and digital dentures that are open to other dentists, clinicians and laboratories interested in expanding their capabilities. He brings a patient from his practice and provides a step-by-step demonstration of his digital denture workflow. He is also active on social media with his group “Fast Track Dental CE” (https://www.facebook.com/fasttrackdentaltk) where he posts story-rich experiences for discussion and learning. “The opportunity to interact with clinicians all over the world and share the vision of 3D printing in dentistry helps make the profession better and improve lives everywhere,” Dr. Scherer says. “3D printing has become so important to my clinical practice that I just can’t imagine going back.”

To learn more about the NextDent 5000 3D printer, visit: https://www.3dme.com/nextdent-5000

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CHALLENGE:

- Increase efficiency of dental restoration pro-
duction and delivery to ease logistical burden of multiple appointments for patients

SOLUTION:

- 3D Systems’ NextDent™ 5100 dental 3D prin-
ters and NextDent materials for high accuracy, high-speed digital dentures and restorations

RESULTS:

- Reduced denture production and delivery timeframes from 5 to 6 visits to 3 or 1.
- Enhanced patient experience through expedited delivery of accurate, esthetic restorations
- High accuracy dental models 3D printed in 20 to 40 minutes compared to 2 to 4 hours on other tested systems
- Clinical time savings of 20% to 50%
ZirCAD MT Multi
The most esthetic high-strength, multi-translucent\(^1\) zirconia

\(^1\)Composed of different material classes
mectron multipiezo – a benchmark in the field of ultrasound scalers

By mectron s.p.a.

State-of-the-art, self-etching adhesive systems are easy to apply and boost the success rate significantly, especially within restorations in the posterior area. Simultaneously they stand for predictable results, independent of the applied basis or the preferred application technique of the dentist. Coming to reliability and user-friendliness, research and development has now set new material standards. Reliably adhesive agent on dentin and enamel! The new ONE COAT 7 UNIVERSAL was developed on the basis of the favoured ONE COAT 7, and is a reliable All-in-One Bond for every indication. Whether self etch, selective enamel etch or total etch technique, a single drop bonds light-curing filling materials easily, quickly and is long-lasting. ONE COAT 7 UNIVERSAL is an excellent adhesion promoter on enamel and dentin, thus is a guarantee for safe restorations even in extraordinary cases. With only a single bonding layer it provides consistently high bonding strength, excellent marginal sealing and excellent marginal integrity. These exceptional clinical values are constituting even when compared with conventional system adhesives.

In conjunction with ONE COAT ACTIVATOR it is optionally also possible to use a chemically cured product. You will always be making the right choice with the light-curing single-component adhesive One Coat 7 Universal!

Ergonomic triangular bottle and single dose – Safe and easy

The universal bonding agent also comes with a new presentation form. The special triangular bottle, with its excellent ergonomic handling, lies comfortably in the hand and the precision dropper allows precise and economical working. ONE COAT 7 UNIVERSAL is available as introductory kit with a 5ml bond to the 5ml bond bottle. Also offered as refill packs in addition to the 5ml bond bottle.

By Coltene

Worldwide, dental practitioners are convinced of this innovative, efficient latest generation bulk composite. Overwhelming feedback since its launch only a few month ago shows how great the demand has been for a solution like Fill-Up! This is COLTENE’s response to the disadvantages inherent to light-curing treatment methods and has resurrected the enthusiasm for Fill-Up! This is COLTENE’s response to the disadvantage.

The new ONE COAT 7 UNIVERSAL is available. The universal composite Fill-Up! is comes in the useful 4.5g automatic syringe. Due to the purpose-built colour, between A2 and A3, there is no need for complicated colour management within the posterior region.

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- Universal shade in a convenient Automix syringe for efficient placement


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Dentsply Sirona introduced Primescan in February – an innovation in digital impressions. The new intraoral scanner has now been awarded the highly renowned Red Dot Award for Product Design 2019. This award acknowledges Dentsply Sirona’s goal of developing attractive and highly functional solutions for its customers that provide valuable results in everyday use.

The perfect partner for your practice

By Dentsply Sirona

The Red Dot Award Product Design
for Primescan

Digital impressions and outstanding design

Dentsply Sirona introduced Primescan in February – an innovation in digital impressions. The new intraoral scanner has now been awarded the highly renowned Red Dot Award for Product Design 2019. This award acknowledges Dentsply Sirona’s goal of developing attractive and highly functional solutions for its customers that provide valuable results in everyday use.

Strong design and sustainable products – there were the emerging trends at this year’s Red Dot Awards Product Design. Primescan, the new intraoral scanner from Dentsply Sirona, was one of the award winners. “We are very pleased to receive this award, which we consider to be an acknowledgement of our efforts to provide our customers with products that are of high quality in all aspects,” said Dr. Alexander Völcker, Group Vice President CAD/CAM and Orthodontics at Dentsply Sirona. “Thanks to its design, Primescan is easy to handle in the normal practice environment; it reliably delivers outstanding results, and it is just fun to use.”

Primescan features improved impressioning technology that scans with an impressive level of accuracy. This makes Primescan a remarkable response to an important requirement in modern practices. After scanning, the data from the digital impressions are available for many applications, both in restorative dentistry and in implantology and orthodontics.

The globally acknowledged Red Dot Award has been awarded to outstanding products, design concepts, and communication designs for more than 60 years. This year, the 99-member jury of independent designers, design professors, and journalists rated a total of 5,500 products from 55 countries in 48 categories. The most important criterion for awarding the coveted prize is high design quality.

For more information about the Dentsply Sirona portfolio please contact your local representative.

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The new Orthophos Society: The perfect partner for your practice

By Dentsply Sirona

Developing solutions for the individual needs of a dental practice – at Dentsply Sirona, this also means providing both new users and specialists with tailored services for X-ray units.

These ideas were very important for the new Orthophos Society, which provides solutions for different requirements with a clear functionalinity.

The three models in the Orthophos series, Orthophos E, Orthophos S and Orthophos SL, each provide a different range of services that precisely cover every desire for imaging systems that dental practices have specified. All models function using the award-winning Sidexis 4 imaging software. They provide an outstanding image quality with a low dose and a high level of user comfort. Due to this diversification, both entry-level users and specialists will find the right service package for them.

Orthophos E – for a simple start to digital imaging

With Orthophos E, you can access the world of digital extraoral imaging for more efficiency in the daily practice routine. Thanks to its optional cephalometric arm, Orthophos E is also suitable for the orthodontic practice. With its panoramic, pediatric panoramic, diagnostic and other exposure programs, it is equipped with all the basic programs for the diagnosis process in 2D. Its MultPad enables the patient-friendly selection of the program. The motorised forehead and temple support helps to stabilise the patient. The integrated temple width measurement also enables the appropriate orbital curve to be selected automatically for results with outstanding image quality.

Orthophos S – the 2D/3D all-rounder in the practice

Orthophos S can be used either as a purely 2D device, or alternatively as a combined 2D/3D system and can therefore be equipped with a cephalometric arm. Orthophos S achieves its enhanced contrast in panoramic images using the auto-focus function. In addition, the shape of the jaw arch or the existence of tooth anomalies no longer needs to be selected manually. This is also true when setting a canine light localiser. The patented occlusal bite block assists with the automatic positioning of the patient and thus enables reproducible and perfectly positioned panoramic images. Depending on the clinical problem, there are comprehensive 2D programs or a number of volume sizes (Ø5cm x 5cm to Ø11cm x 10cm) in high definition (HD), standard definition (SD) and low dose mode available to the user. MARS (Metal Artifact Reduction Software) automatically detects metals in every volume and reduces the artifacts for the best possible image interpretation. Users can select from 30 ambient light colors that provide background illumination appropriate for their practice for even more patient comfort. Its modern design was selected for the Red Dot Design Award and the IF Design Award.

With the new Orthophos Society, we are addressing the specialised needs of our customers and have developed an offer that simplifies both entry into the world of digital imaging and intensive use in specialized practices in several disciplines,” said Jörg Haist, Vice President Global Platform Management Equipment & Instruments. “In this way, even more dentists will receive access to high-quality X-ray technology and therefore to more reliable diagnoses and treatments.”

For more information about the Dentsply Sirona portfolio please contact your local representative.
Speakers Highlights

**Lecture 1**: How to Improve the Prosthetic Rehabilitation from the Aesthetic and Tissue Health Point of View
- Prof Domenico Bald, Italy

**Lecture 2**: Sinus Lift from Crestal Approach
- Prof Domenico Bald, Italy

Managing Aesthetics and Tooth Wear the MI Way
- Prof Brian Millar, UK

GBR and GTR. The Magic Bullets for Implant and Perio?
- Asst Prof Attila Horvath, Hungary

- Prof Peter JM Fairbairn, South Africa

Oral Rehabilitation Influencing Smile Design and Facial Aesthetics
- Prof Jean-Marie Megarbane, Lebanon

Implant Site Optimisation Using Osseodensification
- Dr Costa Nicolopoulos, Greece

Interdisciplinary v/s Multidisciplinary Treatment of Maxillofacial Trauma in the Aesthetic Zone
- Dr Nadim Aboujaoude, Lebanon

What Should we Assess Before Approaching with any Device or Debridement Instrument to Maintain our Restored and Healthy Patient?
- Consolata Pejrone, Italy

**Innovative Periodontal Laser Treatment Concept with Additional Attention to Gingival Recontouring and Depigmentation**
- Prof Dr med dent Norbert Gutknecht, Germany

**Non-Invasive Teeth Discoloration Treatment. Modern Aspects of Enamel Remineralising Therapy**
- Prof Andrey Akulovich, Russia

**How to Achieve Long-term Aesthetic Success in Implant Rehabilitation**
- Dr Maurizio Martini, Italy

**Top Up Your Dental Plan with Facial Aesthetics**
- Dr Rami Haidar, UK

**Digital Implant Workflows Maximising Clinical Outcomes**
- Dr Marcus Dagnelid, Sweden

**Zygomatic Implant Solutions to Treat Sever Atrophy of the Maxillary**
- Dr Nicolas Boutin & Dr Bernard Cannas, France

**Full Ceramic Restoration: The Art Meet Layering Ceramic Restoration**
- Mike Prosperino, Italy

**Injection Moulding Technique: Easy aesthetics, predictable outcome**
- Dr Simone Moretto, Brazil

**Coming Soon**
- Ihssan Hamadeh, Syria

**A Comprehensive Approach for the Dental and Periodontal Patient**
- Consolata Pejrone, Italy

Hands-On Courses

**07 November 2019 | CAPP Training Institute**
- **Reconstruction of Large Ridge Defect by Particulated Grafts and Membranes as a Prerequisite for Successful Implantation**
  - Ass. Prof Attila Horvath, Hungary

**07 November 2019 | CAPP Training Institute**
- **Superior Outcome Using PIEZOSURGERY in Daily Practice**
  - Prof Domenico Baldi, Italy

**06-07 November 2019 | CAPP Training Institute**
- **Minimal Invasive and Non Prep Veneers Smart Smile Design with Veneers**
  - Asst Prof Dr Cagdas Kisaoglu, Turkey

**06-07 November 2019 | CAPP Training Institute**
- **All what you need to Know About Composites**
  - Dr Eduardo Mahn, Chile

**09 November 2019 | CAPP Training Institute**
- **A Comprehensive Approach for the Dental and Periodontal Patient**
  - Consolata Pejrone, Italy

**07 November 2019 | CAPP Training Institute**
- **Ceramic Veneers: From the Diagnosis and Preparation to the Temporisation and Cementation**
  - Dr Eduardo Mahn, Chile

**06-07 November 2019 | CAPP Training Institute**
- **Modern Dentistry without Erbium Laser Therapy is NOT Modern**
  - Prof Dr med dent Norbert Gutknecht, Germany

**10 November 2019 | CAPP Training Institute**
- **Zygomatic Implant Solutions to Treat Sever Atrophy of the Maxillary**
  - Dr Nicolas Boutin & Dr Bernard Cannas, France

**09-10 November 2019 | CAPP Training Institute**
- **Modern Dentistry without Erbium Laser Therapy is NOT Modern**
  - Prof Dr med dent Norbert Gutknecht, Germany

**09 November 2019 | CAPP Training Institute**
- **Injection Moulding Technique**: Easy Aesthetics, Predictable Outcome
  - Dr Simone Moretto, Brazil
The future of dentistry will be driven by data

By Hu-Friedy

In collaboration with Werestore.it by Drs. Gaetano Paolone and Salvatore Scolavino, doctors with expertise and the passion for restorative dentistry, Hu-Friedy announces the new simplified basic kit for direct and indirect restorative procedures: 3SSENTIAL KIT.

Starting from the necessity of something essential and easy to use, 3SSENTIAL KIT is ideal for both clinicians and young students who want to save precious time in their dental office during restorative procedures and are willing to achieve remarkable aesthetic and functional results.

"Until now the minimum number of instruments for a restorative kit was five," says Dr. Paolone, co-founder of Werestore.it, "we wanted to create something even more compact, essential and easy to use, and this is why we chose three instruments instead of five."

3SSENTIAL KIT is the most straightforward kit of restorative ever made, with just three instruments at once: Anterior, Posterior and Spatula with three different colours (red, blue and grey) to easily identify them while operating. The choice of the instruments from the Hu-Friedy the Black Line Collection lays in the useful contrast made between the instrument itself and the tissue.

"The concept behind the Posterior is very simple: we wanted to go from a Plug and Play to a Plug and Sculpt method," says Dr. Scolavino of Werestore.it, "one tip is used to plug the composite into the cavity and the other one can sculpt and model composite in additive and subtractive modelling techniques."

About the Anterior, the doctors call it solid brush since it models and spreads the composite very easily, just like a brush.

"Hu-Friedy constantly works to further develop new partnership with the very people involved in the industry," says Giana Spasic, Manager Key Opinion Leaders Strategy Europe at Hu-Friedy, "for example key opinion leaders, specialists, private practitioners, universities and educators, with the purpose of always finding new ways to help clinicians to perform at their best."

For more information about 3SSENTIAL KIT and all the other Hu-Friedy products, visit www.hu-friedy.eu and download the full catalogue at catalog.hu-friedy.eu.

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Data software is the way of the future for maintaining an optimally running dental practice.

From digital dentistry to data-driven dentistry

There have been a number of innovations that have changed the course of dentistry. One major shift in the industry was the move towards digital dental technology, which led to the development of such concepts as same-day restorations and the paperless dental office. The emergence of analytics solutions for dental clinics is a clear sign that we are now in the middle of another shift, towards an era of data-driven dentistry.

Today, analytics services such as Planmeca Romexis Insights can produce comprehensive and relevant information about patient times, equipment usage and productivity. From the first appointment to the final check-up, Analysts help make comparisons and pinpoint best practices both over time and across clinical procedures. This, in turn, can guide the entire dental team towards higher productivity, better outcomes and happier patients through continuous learning and self-improvement.

Tomorrow, we may see data analysts taken even further, for example, through highly personalised treatments informed by enormous amounts of consolidated patient, performance and quality assurance data. Combining data with artificial intelligence is likely to offer still more possibilities for the future—some of which are already being explored by the Planmeca R&D team.

What is the immediate future of dentistry? In such an ever-moving field, the possibilities are unlimited. If there is one thing that does seem clear, it is this: the future of dentistry will be driven by data.
THE COMPACT MAKES A BIG CHANGE

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*NLZ E : with Endo Function
Continuous Perfection from the Perfect White Range

By Beverly Hills Formula

Dental professionals across the Middle East will have undoubtedly heard of Beverly Hills Formula, a brand that has successfully carved their name as unrivalled experts in oral care and at-home teeth whitening. The brand are the proud creators of the Perfect White Range, which has been making waves with both dental professionals and consumers since its launch in 2012. Never before had the market seen such a range – with bold daring colours with bold statements to match.

Since the range hit the shelves, global sales have been increasing rapidly – notably in the Middle East where the brand has seen a huge demand for the colourful range of whitening toothpastes and mouthwashes as well as the popular whitening kit. Products in the range are non-abrasive, kind to enamel and remove up to 90% of surface stains so it is not difficult to see why the range has become a must have for consumers worldwide.

The range consists of Perfect White Black, the brand’s hero product. The toothpaste is scientifically formulated with Activated Charcoal – known for its love of tannins. The company were the first to bring such a formulation to the market and although copycat products have followed, they have never beaten Perfect White Black when it comes to effectiveness and popularity. The brand followed on from this, simply couldn’t pass by and threw the Perfect White Black products onto the global stage.

In May this year, they announced their partnership with the iconic movie franchise Men In Black International, collaborating with Sony Pictures for the much anticipated movie. The movie was released on June 14th and to celebrate its release, the brand is offering consumers a once in a lifetime trip to London and New York City to carry out their own Men in Black mission. They have also launched three limited edition packaged toothpastes and one mouthwash which can be found in stores across the UK and ROI.

The brand has always been highly selective with their advertising, having never felt the need to heavily promote or push their products to consumers. Rather than expensive marketing campaigns, they have allowed the phenomenal success of the range speak for itself. However, this year an opportunity presented itself that they simply couldn’t pass by and threw the Perfect White Black products onto the global stage.

In May this year, they announced their partnership with the iconic movie franchise Men In Black International, collaborating with Sony Pictures for the much anticipated movie. They had dipped their toes in movie partnerships before, teaming up with Paramount on the recent Bay Watch movie. Having saw huge success off the back of this campaign, they were waiting for the right movie to come up again. Men in Black saw an ideal opportunity for the Perfect White Black products to take centre stage.

The movie was released on June 14th and to celebrate its release, the brand is offering consumers a once in a lifetime trip to London and New York City to carry out their own Men in Black mission. They have also launched three limited edition packaged toothpastes and one mouthwash which can be found in stores across the UK and ROI.

It is the massive success of the Perfect White Range that has allowed the brand to embark on such exciting collaborations and they are looking forward to further success in the second half of 2019.

Review shows distraction techniques may reduce dental anxiety

By DTI

BELO HORIZONTE, Brazil: Dental anxiety is globally regarded as a public health concern owing to its effects on an individual’s oral health and quality of life. The prevalence of the condition in children ranges from 5% to 8%. A recent systematic review assessed whether distraction techniques reduce anxiety during dental treatments in children and adolescents.

Twenty randomized controlled trials (RCTs) of distraction techniques for the management of dental anxiety and dental fear in children and adolescents under the age of 18 were included. Among the distraction techniques used were audio and audiovisual techniques, instrument camouflage, biofeedback, a dental operating microscope and toys. Dental treatments provided were dental examination, oral prophylaxis, local anesthesia, dental restoration, endodontic treatment and extractions.

Qualitative analysis showed with very low certainty of evidence that distraction techniques effectively reduced anxiety and fear depending on the distraction type, instrument used to measure anxiety and fear, and procedure.

The authors thus concluded “The heterogeneity of methodologies and findings in the studies, however, suggests more robust, and well-executed RCTs are needed.”

The study, titled “Use of distraction techniques for the management of anxiety and fear in pediatric dental practice: A systematic review of randomized controlled trials,” was published online in the International Journal of Pediatric Dentistry on March 25, 2019, ahead of inclusion in an issue.