**ESSENTIA FROM GC: MORE CREATIVITY, LESS COMPLEXITY**

As a family-owned Japanese company continuously improving its core competences and technologies, GC strives to develop smart solutions for dentists’ daily challenges, which sometimes requires going against traditional concepts. In this respect, GC has taken a daring new approach to aesthetic dental restorations: Essentia, developed together with a group of experts in aesthetic dentistry, no longer relies on the classical VITA colours, but on a very simple assortment of seven shades, created to mimic natural teeth in a patient of any age and offering dentists the maximum creative freedom. At last year’s International Dental Show, GC presented Essentia to a professional audience for the first time.

In developing Essentia, GC pursued a long process of creating a very lean and simple colour scheme of only seven shades. This material offers more than a true alternative to conventional shade systems; it marks a paradigm shift in restorative dentistry. Shades are no longer based on the traditional hues (A, B, C, D) of commonly used systems, but instead follow the chroma (intensity) and value (lightness) of teeth, in order to best mimic the natural enamel and dentine. Therefore, the two enamel and three dentine shades are characterized as light, medium or dark. Four main combinations of enamel and dentine colours suitable for the patient’s age (Young, Junior, Adult and Senior) make shade selection easier and are sufficient to form the basis of any restoration—at any age.

Four different compositions were used to give specific properties to each shade, each best suited to its respective use: while enamel shades offer high poliuniformity and gloss retention, dentine colours display an amazing shade adaptation to the cavity and can easily be modelled. The Universal shade provides the best chameleon effect for monoshade posterior restorations, and the Masking Liner, with high opacity, is easy to place owing to its injectable consistency. This makes Essentia a simple and reliable solution for all aesthetic restorations, as well as the perfect partner for dentists looking for a simplified, yet highly aesthetic system.

Certainly, this straightforward approach offers many advantages: practitioners primarily benefit from a simplified build-up process, allowing highly aesthetic restorations to be created in significantly less time, while patients profit from a long-lasting gloss, as well as a reduced risk of plaque accumulation and staining, owing to the optimised composition of the enamel shades.

In addition, even dentists desiring more detailed characterization of their restorations gain from Essentia: four dedicated modifiers have been developed to satisfy various demands, such as the desire for an opalescent halo on the incisal edges, fissure staining or mimicking white spots.

By boldly reducing the complexity of conventional shade systems, Essentia brings restorative dentistry to its essence and opens up the way to maximal creativity.

Once more, GC has conquered new frontiers to develop an innovative solution for daily challenges that perfectly blends versatility, simplicity and aesthetics in a smart solution—enabling dentists to just follow their intuition.

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**STYRENK I PLANMEECA FIT**

Planmeca FIT gives dietitians the tools to handle the heaviest and the most time-consuming tasks, helping to develop innovative and appropriate solutions for patients of all ages. It is a powerful tool designed to address the needs of various healthcare professionals, offering a wide range of applications and achieving high precision in all processes.

**Planmeca PlanScan Scanner**

Planmeca PlanScan is a compact, easy-to-use device that enables precise and accurate creation of digital models in a few minutes. It is a versatile solution for all dental specialties. The scanner can be used for creating digital impressions, intraoral scans, and models, as well as for preserving patient records. It is also suitable for use in education and training.

**Planmeca PlanMill 40**

Planmeca PlanMill 40 is a state-of-the-art CAD/CAM milling machine that delivers high precision and efficiency. It is designed to provide a simple and reliable solution for creating high-quality crowns and dental restorations. The machine is easy to operate and requires minimal skill.

**Planmeca PlanCAD Easy Design Software**

Planmeca PlanCAD Easy is a user-friendly design software that allows for the creation of high-quality restorations. It is designed to be accessible to all levels of expertise and offers a wide range of customisation options, helping to achieve the desired aesthetic and functional results.

**Planmeca PlanMill 40 S**

Planmeca PlanMill 40 S is a high-speed milling machine that delivers the highest possible precision and accuracy. It is designed to provide a simple and reliable solution for creating high-quality restorations. The machine is easy to operate and requires minimal skill.

**Planmeca PlanCAD**

Planmeca PlanCAD is a powerful design software that allows for the creation of high-quality restorations. It is designed to be accessible to all levels of expertise and offers a wide range of customisation options, helping to achieve the desired aesthetic and functional results.

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**PLANMEECA FIT 2017**

Planmeca® becomes more than a mere lipstick for dentistry: it becomes a true alternative to conventional concepts, with a very lean and simple colour scheme. Essentia, developed together with a group of experts in aesthetic dentistry, no longer relies on the classical VITA hues (A, B, C, D) of commonly used systems, but instead follows the chroma (intensity) and value (lightness) of teeth, in order to best mimic the natural enamel and dentine.

Essentia, characterised as light, medium or dark, offers more than a true alternative to conventional digital restorative systems. The kit STL format offers a true alternative to conventional concepts; it is a simple and reliable solution for all dentists’ daily challenges, as well as for patients who profit from a long-lasting gloss, as well as a reduced risk of plaque accumulation and staining, owing to the optimised composition of the enamel shades.

In addition, even dentists desiring more detailed characterization of their restorations gain from Essentia: four dedicated modifiers have been developed to satisfy various demands, such as the desire for an opalescent halo on the incisal edges, fissure staining, or mimicking white spots.

By boldly reducing the complexity of conventional shade systems, Essentia brings restorative dentistry to its essence and opens up the way to maximal creativity.

Certamente, questo approccio unico offre molti vantaggi: i professionisti beneficiano principalmente del semplice processo di costruzione, consentendo altamente estetici restauri a essere creati in un tempo significativamente minore, mentre i pazienti beneficiano di un’orientamento lungo e resistente, non così esposto al rischio di accumulo di placca e accumulo, tendendo alla composizione ottimizzata della colata dei colori dell’embrione.

Inoltre, anche i dentisti desiderando una caratterizzazione più dettagliata dei loro restauri, possono beneficiare da Essentia: quattro modellizzatori dedicati sono stati sviluppati per soddisfare diversi desideri, come desiderare un’effetto opalescente sul bordo degli incisivi, sfumature di fissatura o mimicking spettro bianco.

Con coraggio riducendo la complessità dei sistemi di colorazione convenzionali, Essentia porta la restaurazione dentale a essenza e apre la via alla massima creatività.

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Align Technology, the manufacturer of Invisalign, which has now been acknowledged as the world’s leading clear aligner system, has launched a new aesthetic teeth straightening product designed specifically for general dental practitioners (GDPs). Invisalign Go is a simplified approach to teeth straightening that guides GDPs new to the system through identifying, planning and monitoring aesthetic cases, enabling them to use this innovative clear aligner technology to treat patients confidently and by doing so extend their practice offering.

Invisalign Go can be used as a stand-alone treatment for teeth straightening or in combination with other aesthetic or restorative approaches to enable more effective outcomes that support a minimally invasive approach to dentistry. Invisalign Go can treat mild crowding, spacing, orthodontic relapse and other aesthetic tooth misalignment cases. It is suitable for smile improvements in the anterior space (first premolar to first premolar). Invisalign Go is available for single-arch or dual-arch treatments and can provide patients with Invisalign smiles in as little as three months.

Simultifying the system

With the new Invisalign Go system, case assessment is made simpler to help GDPs easily identify suitable patients for treatment. After uploading just five intra-oral photographs of the patient to Align Technology’s proprietary system, the dentist receives an assessment of the case’s difficulty level—based on the parameters of Invisalign Go—to help determine whether to treat the patient or refer the case to an Invisalign specialist.

This case assessment can be done either using the Invisalign Photo Uploader app for iPads and iPhones or via computer on the Invisalign Doctor Site.

If the case is deemed too complex for Invisalign Go, a digitally aided referral process allows the GDP to transfer patient files to an Invisalign-trained specialist with just a few clicks directly within the Invisalign system. In addition to ensuring every patient receives the right treatment, this means the dentist is able to build stronger partnerships with specialists.

Once the patient has been deemed suitable for treatment with Invisalign Go, the GDP fills out a simple prescription form outlining treatment goals and submits it with polyvinyl siloxane impressions or an intra-oral scan. The new system can be integrated into an existing digital dental workflow, as Invisalign Go works with both polyvinyl siloxane impressions and Align Technology’s iTero Element intra-oral scanner, as well as the True Definition (3M), TRIOS (3Shape) and CEREC Omnicam (Dentsply Sirona) scanners.

From this, a personalised treatment plan is created using ClinCheck software. Align’s 3D treatment planning tool. This provides each patient with a clear view of the upcoming treatment journey and gives the treating dentist clinical control over the case. Once the treatment plan has been approved, a series of customised clear aligners will be manufactured and shipped directly to the practice.

Patients are fitted with their first aligners in the practice and advised to change them approximately every week. By moving to weekly aligner changes, treatment time can be shortened by 50%, giving Invisalign Go patients a new smile in as little as 3 months. Check-up appointments are typically arranged every month to ensure the treatment is progressing as intended. Monitoring is key, and as part of the new Invisalign Go system, dentists are provided with an appointment plan to provide task-level guidance with specific and detailed processes to be performed at each appointment. In addition, the Progress Assessment Tool means that, at any time during treatment, Invisalign Go technology allows clinicians to upload new intra-oral photographs and, within minutes, receive confirmation of whether the case is on track. If not, additional aligners can be ordered at any point during treatment free of charge.

Simplified pricing and training

Like the aligners, the price structure and training are clear and make Invisalign Go a realistic treatment option for GDPs: single-arch treatment costs €745 and dual-arch treatment €975. With this fixed laboratory fee, there are no hidden surprises and any additional aligners required to achieve the original treatment goal are included.

The Invisalign Go Training Programme, available to every GDP who signs up to the system, consists of an online training session, followed by an in-person training day with hands-on sessions to provide a thorough understanding of how Invisalign Go works. The sessions offer practical tips and techniques on Invisalign Go digital photography, impressions, interproximal reduction and attachments. This content focuses purely on the use of Invisalign Go in the treatment of patients with minor orthodontic or cosmetic concerns. The training is open to all GDPs at a total cost of €550.

However, Align Technology does not just leave newly certified doctors there. The company has an extensive continuing education programme to ensure that each has sustained support throughout their Invisalign Go treatments.

Unident

Align Technology is happy to announce the partnership of Invisalign Go with Unident for Nordic countries. Unident has been providing dental products and services in Sweden, Norway, Denmark and Finland since 1992. Training will be held in all GDPs at a total cost of €550.

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Established in 1970, Tandlægerne Kold in Herning is a nationally renowned dental clinic owned by Simon and Louise Kold. Currently, the clinic team consists of 26 dentists, dental assistants and technicians. Over the last few years, the clinic has seen a rapid increase in new clients. As a direct consequence of their success, the dentist couple expanded the clinic size to 800 sqms and ventured into a new era by investing in CAD/CAM equipment and a Roland DWX-4W dental mill.

“We were fortunate to be able to beta-test 3Shape’s new TRIOS 3 scanner and based on that experience we decided to take it one step further and add a dental milling machine in order to complete the circle and manage the full production in-house,” Kold said. “Roland’s DWX-4W came highly recommended by 3Shape and it has not let us down.”

He continued: “The DWX-4W has already proved its worth and having a CAD/CAM solution in-house has made a world of difference to the service we are able to provide our customers. The best example lies a few months back when we had a patient residing in Paris, France home for a brief visit. He was only home for one day and we actually managed to do a complete treatment with scanning, designing, milling and implementing a new crown in one day.”

What has actually impressed Kold the most is the quality and finish of the dental prosthetics milled on the DWX-4W.

“We have nothing bad to say about the DWX-4W, but if I should highlight just one thing about this amazing milling machine it will have to be the quality of the completed product. The quality of the crowns we do on the DWX-4W is superb and absolutely live up to the high quality we demand on behalf of our customers,” he explained.

Advantages of having a DWX-4W combined with a scanner in the dental clinic are many, according to Kold, including faster treatment of patients and the fact that they can spare them the extra cost and trip to the dentist because they need temporary implants. With this new set-up, he said, they can actually test and adjust the implant on site.

“As an extra plus to the investment, having the full CAD/CAM solution in-house has been a source to daily teamwork in the clinic and the result is clearly more motivation employees. “Perhaps it shouldn’t be a big surprise but I have to admit that the investment has led to more motivated employees who thrive tremendously seeing their work from start to finish. I honestly believe that it is a matter of professional pride and the fact that we can now control the quality of our work even better is a huge satisfaction to everybody in the clinic. More information are available at www.go.rolanddg.eu/dgshape or at booth C2-028.”

“Just as we can do overlays to replace large plastic fillings and create a much nicer and more durable tooth,” Kold added.

Simon Kold emphasizes that while he is very pleased with their decision to expand and take on CAD/CAM and in-house production of dental prosthetics, he has every intention of leaving the more complicated jobs to the dental labs.

“This new set-up has made a world of difference already and we see so many opportunities with this equipment in the sense that we can provide an even better service, create more durable solutions and not least provide our patients with better looking teeth. But there is only so much we can do ourselves,” he concluded with a smile.