Dürr presents the next generation of Tornado compressors

For decades, air compressor systems by Dürr Dental have been renowned for their sturdiness, strong, durable performance and the highest quality standards. Now the company has further improved its successful Tornado compressors, as the one and two-cylinder systems are not only exemplarily quiet but also highly energy-efficient.

The new Tornado 1 and Tornado 2 units combine all the advantages of their predecessor models including dental air of the highest quality, a compact form, excellent sturdiness and lasting value. An optional, pre-assembled, noise-reducing hood subtly embodies the award-winning design of the Tornado. Together with an elaborately designed air extraction solution it also operates extremely quietly at an incredible 54 dB, which is comparable to the noise level of a warm summer rain shower or a whispered conversation. These attributes not only help clinicians a lot of time and anxiety, according to the company, the new Tornado models also work substantially more efficient than earlier models while consuming 15 per cent less energy to deliver the same performance.

Both units can be supplied with a membrane dryer, if required, for uninterrupted operation around the clock. The systems also provide the highest standards of hygiene, among other things, through an anti-bacterial inner coating of the pressure tanks. Owing to these features, Tornado compressors are powerful and economic enough to supply up to three treatment rooms, the company said.

DÜRR DENTAL, GERMANY
www.duerrdental.de
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Whole range of lab products on display by Adentatec

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

SYSTEM SOFT-BLANK is especially soft, good tensile and homogeneity owing to special heat treatment and features high coro-

All medical devices distributed by the company are exclusively pro-
duced in Germany and are certified to the highest standards (CE marking and US Food and Drug Admin-
istration), as it is committed to the strict implementation of the qual-

Soredex: Right tools for the job

At the FDI Annual World Dental Congress, SOREDIX, a Finnish man-
facturer of high-quality imaging products, is presenting easy-to-
use solutions aimed at improving patient care and clinic efficiency. With its CRANEX 3Dx three-in-one imaging system, SOREDIX is now able to offer a 2-D or 3-D imaging solution for a wide variety of diagnostic tasks in the dento-maxillofacial, head and neck, and ENT regions.

3-D imaging is fast becoming indispensable in diagnostic work.

SOREDIX is showcasing its most advanced CRANEX extra-oral imaging device to date. The CRANEX 3Dx system combines panoramic and cephalometric imaging with advanced CBCT imaging. It features five fields of view (from 5 x 5 cm to 15 x 15 cm) with a selection of resolutions, including high, standard and a low-dose programme.

Both new implants also benefit from Nobel Biocare’s internal conical connection. This advanced connection’s conical seal and hexagonal interlocking mechanism provide high mechanical strength. It offers restorative flexibility too, being compatible with Nobel Biocare’s most innovative restorative solutions, including those designed specifically for the posterior. These include the new PEEK Healing and PEEK Temporary Abutments, which are anatomically shaped to match the molar contours. As the PEKK Abutments come ready-shaped for an optimised emergence profile, fewer adjustments are needed. This can simplify treatment and reduce costly chair time.

When it comes to the final restoration, the FCZ (full-contour zirconia) implant Crown is designed for strength and predictability even under the high occlusal forces of the posterior. There’s no worry about chipping either, as the full-contour nature of the NobelProcera FCZ Implant Crown removes the need for veneering.

The biocompatibility of the materials used contributes to biological stability in the areas it matters most. Plus, being screw retained, the FCZ Implant Crown is completely cement-free, avoiding the risks associated with cement excess. Even the titanium adapter is mechanically retained.

The ability to use an angulated screw channel (ASC) allows the screw access hole on the FCZ Implant Crown to be placed anywhere between 0° and 25° in a 160° radius. This means it can be angled towards the front of the mouth for easy access, even in the posterior. It also helps avoid placing the access channel on the occlusal surface of a tooth where it could affect occlusion. The associated Omnipoint Screwdriver further simplifies work on the restoration. Its effective pick-up function and secure grip on the screw help the clinician to work safely and efficiently.

Natural-looking tooth color is another benefit offered by the FCZ Implant Crown. Whichever of the eight available shades is used, the color is applied throughout the material. This means discoloration isn’t a concern when making adjustments. Cutbacks and staining can also be used to achieve the desired aesthetic effect.

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ACTEON presents its new X-Mind trium dental panoramic, which is upgradable to 3-D (EBCT) and/or cephalometry.

It has a full range of medium FOV sizes for the realization of the 2-D and 3-D examinations, which makes it the perfect tool for implant surgery, endodontics, orthodontics, periodontal treatment, as well as general dentistry and ENT.

The combination of the smallest voxel size available on the market (75 μm) and the in-house developed SHARP and STAR filters is supposed to ease the use of the device and make diagnosis more reliable. According ACTEON, X-Mind trium has four FOV sizes ranging from Ø 20 x 40 mm to Ø 110 x 80 mm to limit the exposure on the region of interest. The FOV are native and not stitched, the company said.

Owing to a patented mechanism, the secondary collimation does not need to be on the cephalometric arm. The positioning of the patient on the cephalometric module can therefore be easier and faster. Furthermore, the arm can be shorter giving the X-Mind trium one of the smallest footprints for a cephalometric product. Clinicians can operate the device easy and intuitively with the ACTEON Imaging Suite (Windows and Mac OS X). Its open architecture makes it compatible with most of the Patient Management Systems of the market.

Planmeca FIT

The open Planmeca FIT system for chairside CAD/CAM provides dental clinics with a completely digital workflow. According to the dental manufacturer, it offers all the necessary tools for designing perfectly fitting restorations within the first patient visit. Instead of two visits, patients can be treated in one hour, without requiring temporary crowns or physical dental models.

Planmeca PlanCAD Easy design software is ideal for a wide range of prosthetics planning. It provides the perfect tools for sophisticated 3-D designing at dental clinics, ensuring the precise placement of restorations. Completed designs can either be sent to lab in an open STL file format, or manufactured on-site with the Planmeca PlanMill 40 milling unit. Packaged with refined power, the unit produces restorations from a large selection of materials, exactly according to the design.

All steps of the Planmeca FIT workflow can be controlled and accessed through the Planmeca Romexis software platform. In addition, the software provides remote real-time usage information on the Planmeca PlanMill 40 milling unit, allowing clinics to locate resources and monitor ongoing milling processes.

Planmeca, Finland
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www.DDSWorldShow.com
**GC exhibits a whole new level in glass ionomer technology**

With EQUIA, aesthetic bulk placement is now possible in posterior restorations, according to dental manufacturer GC. EQUIA is an advanced restorative system that features a new generation of glass particles (EQUIA FI Capsules) and a highly-filled resin coating material (EQUIA Coat). This way, it combines quick and easy handling with good physical properties and aesthetics.

As a biomimetic filling material, EQUIA enhances remineralisation by allowing diseased dental tissues to heal through the release of fluoride. Owing to the unique secondary maturation effect attributed to saliva, it also provides increased strength for the glass ionomer over time. A single layer of nano-filled EQUIA Coat not only protects the restoration against moisture contamination and acid erosion but also exponentially increases the physical properties of the EQUIA filling, including wear resistance and fracture toughness. EQUIA is routinely used as part of treatment strategies for deeper lesions, caries stabilisation and general restorative care of higher carries risk patients, geriatric and paediatric patients. Over the last five years, the clinical performance of EQUIA has been highly appreciated by clinicians worldwide. Together with various ongoing clinical studies, EQUIA is proving itself as a long-lasting posterior restorative alternative for daily routine practice (in the given indications).

**PeriO3 Oil contains natural triple formula for healthy gums**

Ozone has become increasingly important in dentistry in recent years. It has been demonstrated to kill viruses, bacteria and fungi and to promote healing processes by activating the metabolism. The ozonised natural gum therapy effectively supports the treatment of acute and chronic inflammation of the gums and, in contrast to chlorhexidine, causes no discoloration. In addition to olive and castor oil, ozone is a main component of Hoffmann’s PeriO3 Oil. This highly effective combination excels though its excellent tolerability and is even recommended for the treatment of patients who are pregnant or breastfeeding.

Hormonal changes during pregnancy affect the oral vessels, which are then easier for bacteria to penetrate and lead to periodontal diseases faster. According to Hoffmann, PeriO3 Oil is the solution for pregnant and breastfeeding women, particularly owing to the oil not containing any alcohol.

The highly reactive oxygen atoms in Hoffmann’s PeriO3 Oil purposefully eliminate the pathogenic anaerobic bacteria and restore the healthy oral flora. The sensitive oral mucosa and the taste buds are not irritated too. The bacterical and fungical properties of ozonised oils have been scientifically proven, when treating periodontal disease, ozonised oil provides better results than a 0.2 % chlorhexidine solution. There are significant benefits when it comes to dealing with staphylococcus aureus and parphyromonas gingivalis.

Hoffmann’s PeriO3 oil is applied into the interdental spaces or the gingival pockets using a blunt cannula. In order to enhance the effect, professional dental cleaning and calculus removal or curettage should be performed prior to treatment. Hoffmann’s PeriO3 Oil is also suitable for the treatment of gingival injuries, grinding traumas and wounds after tooth extraction. Additional mouthwashes are contraindicated during the application, the company said.

“Particularly useful Hoffmann’s PeriO3 Oil for patients with an inclination to chronic gum inflammations, but also for those with simple gingivitis and for the treatment after periodontal treatment as a supportive measure,” explains dentist Dr André Kaczmarek. “I have successfully treated more than 5,000 cases with this preparation in my dental practice since 1998.”

**State-of-the-art dental milling technology on display in Bangkok**

A leading provider of dental milling technologies, Roland DG Australia recently announced the introduction of its new wet milling dental machine. The DWX-4W, and other new developments in Roland DG dental milling technology will be on display at key dental conferences worldwide, including FDI 2015, the company announced.

Roland DG developed the DWX-4W milling machine especially to meet the demands of this growing market. “By providing a device capable of wet milling a wide variety of materials with reliable precision, we plan to complement our existing portfolio of conventional dry milling machines that already receive great support from dental labs worldwide,” explained Shane Adams, Distribution Sales Manager at Roland DG.

According to Adams, Roland DG has identified a market need that it intends to fill.

“In the current market we are familiar with products that combine the functionality of dry milling and wet milling into a single machine,” he continues. “While these machines can process a variety of dental CAD/CAM materials, they require a cleaning process when switching between wet and dry milling. This includes the disposal of milling residues, then cleaning the inside of the machine and drying out the processing area.”

Roland DG’s multiple device solution of either dry or wet milling can handle the simultaneous processing of different materials without the inconvenience and delay of cleaning. “Each machine specialises in either wet milling such as the DWX-4W or dry milling such as the DWX-50 and the smaller DWX-4. Furthermore, having separate machines provides the opportunity to add an additional unit to meet production demands, without the ability to run four units off the one PC,” Adams said.

More information is also available online at www.easyshape.com.au.

**Roland DG, Australia**

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