Great White carbide lab burs

By SS White

COLOGNE, Germany: When choosing a dental bur, the options seem endless, even for specialty burs like those designed for laboratory applications. The needs and requirements of dental laboratories have changed significantly over the past ten years, and today’s laboratories cut everything from plaster to titanium and require a product that offers great efficiency.

For increased performance and durability in laboratories, SS White recently introduced its Great White Lab Series Carbide Burs, with a patented proprietary zirconium nitride coating to increase the surface hardness of the bur and create an extremely efficient cutting instrument. According to Brant Miles, Director of Business Development at SS White, the Great White laboratory burs offer up to ten times increased durability and longevity compared to products not coated with zirconium.

With a tungsten carbide head, the burs cut a multitude of different dental substrates, and a stainless-steel shank reduces unnecessary wear to the handpiece. The burs are abrasion-resistant, reducing surface heat and vibration for a cooler and more consistent surface finish. With the versatility to cut all types of materials, the Great White laboratory burs are available in cross-cut and spiral-fluted blade configurations in a variety of shapes, sizes and grits.

Dental professionals can choose the correct instrument for all applications, whether for bulk reduction, adjusting or fine finishing on all dental materials, including stone, acrylic, precious and non-precious metal, or any other material used in the dental laboratory.

“Labs are also seeking partners. Many labs work closely with expert design services, milling centers and 3D print providers to ensure that they can fulfill their customers’ varied demands. The open system philosophy behind Dental System will enable you to work directly and seamlessly with the industry’s strongest providers.”

SS White invites anyone interested in adding Great White carbide laboratory burs to their SS White product line or becoming an SS White dealer to contact International Director of Sales Michael Schwartz at mschwartz@sswhitedental.com. By partnering with SS White and respecting the 175-year-old brand, dealers will benefit from:

- a differentiated restorative and endodontic full product line
- world-class quality
- ISO 13849:2003
- preferred pricing commitment
- industry-leading delivery times
- full sales and marketing support.

For more information can be found at www.3shape.com

By DTI

COPENHAGEN, Denmark: 3Shape has announced the release of the 2019 version of its industry-leading design software for laboratories. The new and improved 3Shape Dental System 2019 includes significantly enhanced solutions for designing and producing dentures, splints and clear aligners, as well as improvements to core workflows.

“3Shape Dental System 2019 enables labs to do what they love, creating great aesthetic and functional dental art,” said 3Shape Vice President for Product Strategy Rune Fisker. He added, “With every new 3Shape Dental System software release and as a part of our 3Shape LabCare promise, we develop stronger software with increased productivity and new opportunities for labs to expand their business and unlock their potential.”

Powerful advancements to 3Shape’s denture design software and new developments in materials and manufacturing allow for higher profit margins for laboratories when producing dentures digitally. The new features of teeth-in-blocks, optimised try-in denture workflow, and improved TRIOS integration and alignment reduce labour time, production costs and improve efficiency.

Clear Aligner Studio enables laboratories to expand their offerings with clear aligners. The new version of Clear Aligner Studio brings 20-40 per cent efficiency gains to the setup and staging of clear aligners and includes new automated features, such as 3D tagging, attachment sizing and placement.

3Shape Split Studio enables laboratories to easily produce splints, right guards, protectors and similar dental appliances with just a few clicks. It is important to note that 3Shape Split Studio has not yet been approved by the Food and Drug Administration in the US.

Globally renowned certified dental technicians Pritmek Sweeney and Kate Rintnik have created a complete set of new smile libraries for 3Shape Dental System and 3Shape Smile Design. The smile libraries are based on real people’s smiles and are included in a corresponding coffee table book meant to inspire the patient experience enabled by intraoral scanners and 3D software for diagnostics and treatment. Labs can play a key role in this change because the digital dentist needs a strong digital partner—a lab they can work with to realise the full potential of today’s technologies.

Speaking about the new Dental System software, 3Shape co-founder Tais Clausen remarked, “Dental System 2019 is for labs of all sizes that want to stay ahead in a changing industry. And dentistry is indeed changing. More and more dentists want to enjoy the efficiency and improved patient experience enabled by intraoral scanners and 3D.

The system now offers design proposals with just one click—for example, for beautiful gingivae for implant bridges. There is also a new advanced function using the patient’s real jaw motion.

New 3Shape Dental System 2019 software now available

© 3Shape
The broad range of indications and the easy to use software interface make Dentply Sirona’s inLab CAD/CAM software a central component of the digital workflow in many laboratories. The brand new inLab soft- ware 19.0 update offers more design options, better efficient organization of procedures and an enhanced networking with the dental practice.

The continuous development and optimization of the inLab software strengthens professional application opportunities for more productivity in the laboratory. The inLab CAD SW 19.0 Model App now allows laboratories to use both in-trading and ELOS Medtech model analogs when designing implant prosthetic cases. Furthermore, Atlantic® Core Files that are received can now be made into a model, under consideration of the appropriate abutment geometry, so that an analog model is not required for such cases.

The cooperation between Dentply Sirona and exocad®, which was announced earlier this year, represents a synergistic partnership that benefits the dental laboratory. exocad® users can now take advantage of a validated workflow that utilizes Dentply Sirona’s high-precision extraoral scanner, the inofos X5. This workflow enables a case to be created in exocad®, then scanned with inofos X5 from inlab software version 19.0 or higher, and designed with the exocad® software in a fully integrated workflow.

The new Cercon® xt ML disk from Dentsply Sirona – the extra translucency zirconia with a natural color gradient for high-quality esthetic results – has been validated for production with inLab MC X5 or inLab MC XL.*

inLab CAM software with new process options

inLab CAM software 19.0 provides even more efficient production processes, particularly when used with 5-axis inLab MC X5 grinding and milling unit. For the first time, inlab CAM 19.0 contains an analysis tool that ensures a high level of reliability by providing a production simulation that previews the final production, on the basis of positioning, spruing and tool configuration. The thickness of the walls of the object can also be tested before processing.

The new Connect Case Center In- box for all dental lab oratories inLab users still benefit from the ability to receive digital impressions and order data transmitted through Connect Case Center, formerly Sirona Connect, directly within the inlab software. The Connect Case Center Inbox is a new feature. This standalone application gives labs that also, or only, work with other CAD/CAM software flexible access to digital impression data that has been generated from a CEREC digital impression unit, such as PrimeScan or Omnicam. For further processing in the preferred laboratory software, the Inbox not only generates the inlab format, but for the first time, also the dental project format validated for exocad®, providing model and case data, color information and preparation margins. Other common open data formats, such as STL and OBJ, are also available. Further functions can also be used, such as multiple downloading for the storage of cases in predefined work folders and linking to laboratory management software.

The Connect Case Center Inbox is subject to license, but customers who upgrade to inLab software 19.0 will receive it for free with the current update. The application can be used on a separate Windows PC, independently of an inLab PC. For the first time, the inlab software 19.0 is also available for download (search ‘inLab software 19.0 online’). As usual, the inlab software update 19.0 license (CAD and CAM) can be ordered from specialist retailers.

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

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*Available from exocad® 2.3 Matera. Availability may differ between exocad® sales partners – please direct your inquiries to the respective sales partner. You will find a list of the authorized exocad® sales partners at exocad.com/sales-partners/index.html

By Dentply Sirona

The provided easier access for the lab technician when bonding Portrait IPH Denture Teeth in place. Furthermore, 5mm disks in height (of all material classes) can now be processed in the inLab MC X5, including Lucitone 199.

In the case of restoration data from other CAD software, tool-compatible machining of the fitting surfaces is also possible with the inlab production machines. The inlab MC X5 can now also be used to produce crowns with screw access channels from grinding materials using the wet grinding process, e.g. Celtra Duo, for the manufacture of implant-based restorations.

It is a seamless inlab system integration with automatic data transfer or the import of open data, regardless of which CAD data basis is used, the inlab CAM software has an intelligent query system, and guides the user safely through the manufacturing process depending on the type of restoration. In addition, the extended validated construction info interface with exocad® enables restoration data to be conveniently imported into the inLab CAM software for the first time in a compatible format, where it can be processed with inLab MC X5 or inLab MC XL.

The new Cercon® at ML disk from Dentply Sirona – the extra translucent zirconia with a natural color gradient for high-quality esthetic results – has also been validated for production with inlab MC X5. It can be selected directly in the inlab-CAM 19 software or higher going forward.

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