Dental System by 3shape

What’s New? – Dental System™ 2009
Welcome to 3Shape's Dental System 2009 release!

With this release, the 3Shape Dental System further builds upon its position as the most advanced CAD/CAM solution on the market. The 2009 system gives laboratories of any size the opportunity to offer the highest level of output quality, improve their productivity through reductions in cost and turnaround time and future-proof their business.

This new version introduces several significant additions and improvements. For example; a broadened range of dental indications offering a palette which is second to none, unique process optimization through adaptive impression scanning, enhanced design efficiency and flexibility, and intuitive free-form modeling tools.

We hope you will enjoy the new release and trust that it will create value in your daily operation!
Adaptive Impression Scanning— A new leap forward in digital dentistry
(Add-on and D700-Scanner)

Through the new D700 impression scanner the 3Shape Dental System delivers high quality impression scans, representing a truly unique opportunity for work process optimization and cost saving to labs and large-scale dentists. A combination of 3-axis, 2 cameras with optimized angle and 3Shape’s patented adaptive scanning technology enables the D700 to scan even deep incisor preparations. The impression scan can be applied directly in 3Shape DentalDesigner™ and allows parallel manufacturing of model, coping and crown.

Improved Design Flow & User Friendliness –
Standard coping in less than 2 min.

Dental System 2009 offers a wide array of enhancements focusing on design efficiency and flexibility. As an example, the whole process for scanning and designing a single coping, from start to end, can be completed in less than 2 minutes. This is realized through process simplifications, general automation and increased intuitiveness in user interface, visual guides and design tools.

Powerful Sculpt Toolkit – Maximum freeform flexibility

This new toolkit gives technicians maximum design flexibility with freeform tools; including wax knife, morphing, global transformation, and automatic routines that directly modify the chosen crown. For example cut to antagonist (even allowing a negative value, creating deliberate intrusion in antagonist), enforced minimum thickness and surface smoothening. The Sculpt Toolkit can directly be applied to all indications.
Crown automation – Outstanding design speed and esthetics

DentalDesigner™ automatically pre-models the tooth anatomy in place by optimally adapting it to the antagonist and the neighboring dentition. Suggested designs can easily be adjusted for example by adding new proximal contact points and using the free-form Sculpt Toolkit.

Pressed Ceramics – Full digital Crowns & Bridges today!

The Dental System 2009 provides outstanding design opportunities for porcelain pressed to metal or Zirconia restorations, allowing simultaneous combined design of substructure and overlying anatomical wax pattern. From design, split-files are automatically prepared for output: one for the anatomically correct coping, and the second for the press pattern, enabling the full digital crown and significantly reducing cost.

Inlay, Onlay & Veneers – Sophisticated design using anatomy morphing

The 3Shape Dental System™ 2009 fully supports the design of inlays, onlays and veneers, including automatic anatomy morphing and approximation to neighboring dentition.

Full anatomical modeling – Wide indications, superior clinical result

With DentalDesigner™ 2009, anatomical restorations can be modeled using several alternative techniques: anatomical copings, full anatomical crown, cutback crowns and freeform lingual bands and finally over-pressed crown and bridges. The powerful Sculpt Toolkit delivers unprecedented modeling freedom and efficiency.
Post & Core using impression scanning – Unique indication and potential

The D700 scanner’s impression scanning capability enables the scanning of post & core, something which is impossible on traditional gypsum scanners due to the narrow post. All the advanced modeling functionality of DentalDesigner can be applied directly to the scan to complete the restorative work.

Advanced abutment design (add-on) – Faster & better customized abutments

Extensive new functionality for faster and better customized abutment design, easy shaping of emergence profile and anatomical shape, scan of wax-up abutments and wax-up implant bridges for copy milling and integrated simultaneous design of abutments, copings/frameworks and crowns. Applicable implant libraries are offered by various suppliers including original implant manufacturers and 3rd party manufacturers.

Advanced scan indications – Unmatched scanning flexibility

Now covering impression scanning, post & core, 16-unit bridges, articulated antagonist model, wax-up bridges for copy milling, deep inlays, pre-preparation model aligned to preparation model, implant position and orientation detection, wax-up customized abutment and wax-up implant bridges for copy milling. In total, an outstanding scanning flexibility!

Scanning of pre-preparation model & diagnostic wax-up – Improved clinical foundation

The pre-preparation model and diagnostic wax-up contain very valuable information for modeling of full anatomical crowns and general restorative work. In Dental System 2009 the pre-preparation model and diagnostic wax-up can now be scanned and aligned to the normal preparation scan and visualized during the design phase. All providing an improved foundation for a superior clinical result.

Intra-oral scan import – Superior interfacing

With Dental System 2009 it is possible to import and work directly on scan files from open intra oral scanners such as iTero from Cadent.
Integrated User Manual – Instant guidance at your fingertips

In Dental System 2009 the User Manual has been integrated in the software, by means of an Online HTML version, enabling instant guidance and advice, relating directly to the actual design stage or feature in question.

Multilingual support – Speaking your native language

3Shape Dental System™ supports multiple languages throughout all applications. Currently: English, German, French, Italian, Spanish, Japanese, Korean and Russian.

Export/Import of Material files – Simplified Manufacturing Networking

With Dental System 2009 manufacturers/sites can import & export material files, anatomy libraries etc., increasing system flexibility and supporting enhanced networking.

D700 Scanner – The foundation for digital quality and productivity

The new D700 scanner launched Q2 2009, represents the culmination of 3Shape’s scanning expertise. This revolutionary scanner is optimized for impression scanning, and is capable of scanning full dental gypsum models up to 40% faster and with greater details than 3Shape’s previous D640 scanner. The scanner employs a unique 2 cameras and 3-axis motion system, which results in unrivaled accuracy in object geometry acquisition. The D700 also offers reduced temperature sensitivity and improved USB support.
Face Scan Integration – Superior pre-treatment visualization

Dental System 2009 is prepared for combining 3D face scans, obtained via the coming 3Shape Face Scanner, with 3D scans of the patient’s teeth enabling advanced 3D pre-treatment visualizations. Compared to traditional diagnostic wax-ups, the face scanning solution enables superior 3D treatment visualization and ability to interactively update the design with the patient.

Ortho Upgrade (add-on) – Fully exploit your system’s potential

The superior performance of 3Shape’s Dental System can easily be applied to Orthodontics applications through the Orthodontics Upgrade. This includes a dedicated application for the fast and accurate scanning of orthodontics study models and enables easier storage and management of patient cases. In addition, this offers better diagnosis and more accurate assessment of treatment efficiency with unique 2D and 3D analysis tools, advanced treatment planning through virtual setup, reduced treatment time, reduced chair time and improved communication between orthodontist, patient and lab.

For further information concerning the Dental System 2009, please consult the User Manual (Online HTML version available from inside the application).
As a major supplier of dental system solutions, WIELAND embodies both tradition and progress in matters of dental products and technology. Since our company was founded in 1871, we have stayed true to our corporate philosophy of combining tradition, innovation and quality with the best in customer care. Today, our core competencies and key strengths lie in the forward-looking integration of technologies and materials for dental prosthetics. This ensures that patients can trust in the quality of their dentures, and our partners in dental practices and laboratories can continue with confidence on the path to digitalisation and greater competitiveness.

WIELAND offers a wide range of products and services from CAD/CAM technologies and dental alloys to veneering ceramics and electroforming. Thanks to our worldwide presence and international network of regional branches and local agencies, WIELAND is never far away, and your contact person can always be located via the Internet.

www.wieland-international.com
WIELAND Dental + Technik GmbH & Co. KG
Schwenninger Straße 13, 75179 Pforzheim, Germany
Fon +49 72 31/37 05-0, Fax +49 72 31/35 79 59