



Our vision

The future of dentistry is digital.

Digital dentistry is creating scores of opportunities for dental professionals. We believe that the right technology can make dentistry predictable, enjoyable and less stressful. Dental Wings is focused on helping dental professionals bridge the gap from analog to digital in order for them to prosper.

Dental Wings has opened the door to a new era of digital dentistry. We have created the most flexible and powerful “patient-centric” open software platform on the planet. DWOS is seamlessly integrated ecosystem of dental technologies that work together to make life better for patients and dental professionals.

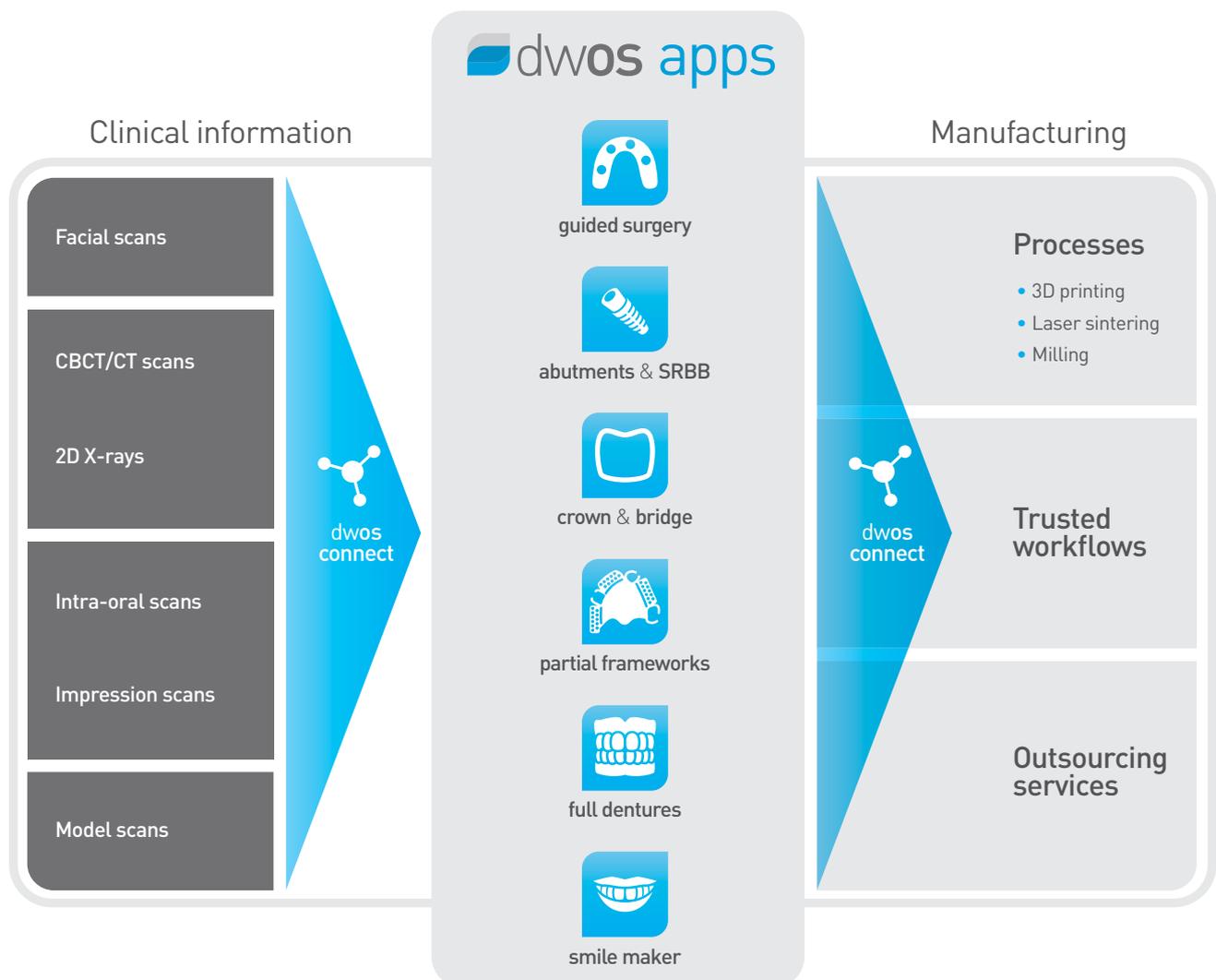
dwos
the knowledge-based
ecosystem





As within other health care business segments, the digitization of clinical information in dentistry has created an exciting opportunity for collaborative workflows. The DWOS ecosystem has become the defacto industry platform wherein participants can collaborate to deliver best of breed restorative solutions.

Our philosophy is simple; comprehensive clinical information is treated within a knowledge-based design engine to deliver flexible solutions, produced with trusted material and manufacturing technologies.





A worldwide community of thousands of passionate dental professionals trust DWOS to keep them in the lead.



Open access

DWOS is an open platform, accessible to all systems that support common, unrestricted data file formats. This allows users to grow with the latest state-of-the-art technologies without business restrictions or technological limitations. By using open standards, an increasing number of input devices generating clinical information, such as CBCT/CT and intra-oral scanners, are easily integrated into DWOS. Additionally, an ever increasing number of manufacturing technologies, workflows, and service providers are being connected to DWOS.



Extended capabilities

Crowns, implant crowns, implant bars and bridges, removables, custom abutments, onlays, veneers and more can be designed with DWOS. DWOS combines technological advances such as facial and CBCT/CT scans to lay the foundation for comprehensive treatment planning and increased patient acceptance.



Pathway to trusted materials and workflows

Through collaborative development, Dental Wings has established powerful partnerships with leading dental technology and material providers, such as 3M ESPE and Straumann.



Multi-level user experiences

DWOS caters to the individual user's needs and expectations by adapting to all levels of skill. From semi-automated streamlined workflows to advanced parametric controls, DWOS is a complete and powerful software. Our automatic modes for multi-die proposals and full crown designs will make your life easier while giving you the freedom to be creative and exploit your talents.



Integrated communication

By connecting clinics, labs and production centers, DWOS Connect allows each of them to be part of a powerful network that leverages their investments. Clinics take an active role in the digital workflow, while labs access a network of production centers, which significantly enhances their product portfolio.



Affordability and investment protection

Our scan and design systems are offered at highly competitive pricing. Software upgrades are delivered on a regular basis. Our dedicated development team continuously works to improve DWOS and offer new applications, making users immune to technological obsolescence.

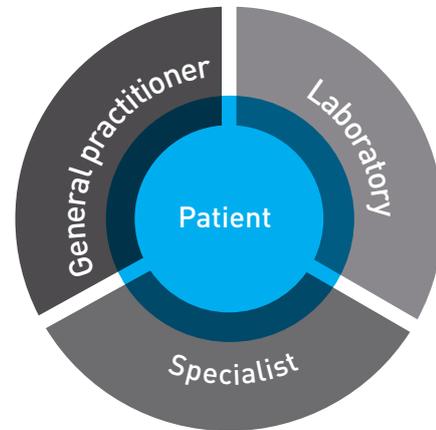


Learning support

Our step-by-step tutorials, complete interactive user guide and dedicated second-line support assist users to fully exploit the power of the DWOS ecosystem.

Patient-centric

We believe that providing dental care that is respectful and responsive to individual patient preferences, needs and values is critical. Patients today expect to receive the best available restorative treatment and to be actively involved in the decision-making regarding their treatment options. DWOS provides intuitive communication tools to facilitate the interaction and dialogue between patients, practitioners and labs.



Prosthetic-driven design

The delivery of best of breed restorations is the core function of DWOS. We embraced a “prosthetic-driven design” philosophy which significantly improves treatment planning, prosthesis design and manufacturing. All the patient-related clinical data is analyzed within DWOS from a global perspective. Implant-borne restorations are designed by combining information originating from both the CBCT/CT and digital impressions scans. Similarly, prosthesis designers increasingly use 3D facial morphology and smile libraries to accurately reflect the patient’s situation.



Comprehensive design

Restoration designs are performed within DWOS by taking the full clinical situation into account. Our design strategy is based on an “outside-in” where the CAD engine enables the generation of the full prosthesis proposal in one single step. For implant-borne restorations, abutments are dynamically adapted to the full contour morphology of the CAD proposal.



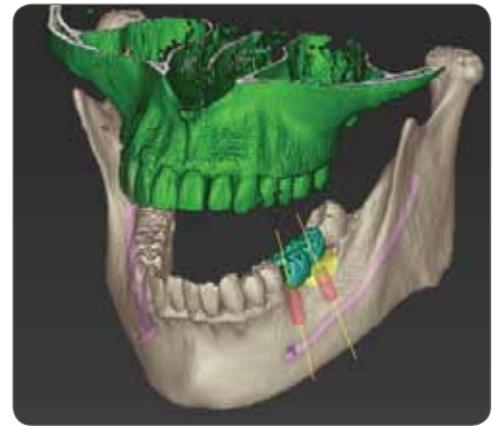


guided surgery

DWOS now includes a fully integrated guided surgery workflow, which comprises: I) implant planning, II) prosthesis design, III) surgical guide design and manufacturing and IV) immediate-load provisional design and fabrication. The coDiagnostiX application is a sophisticated, user-friendly software with an extensive library containing implant, abutment and sleeve systems from all the major implant manufacturers. Our unique digital workflow allows users to design digital drill guides and output the design data for 3D manufacturing.

Benefits

- Detailed visualization of the patient situation in three dimensions provides a 360° view of the bone morphology.
- Easy identification of the optimal implant position and precise implant placement for predictable results.
- Local fabrication of drill guides increases flexibility and strengthens relationship between dentists and laboratories.
- Better patient communication and reliable treatment estimates build trust in implant planning and treatment.



Implant planning

Designed to satisfy the most varied needs

Open system

coDiagnostiX is an open system with a library containing more than 2000 implants, abutments and sleeve systems from all the major implant manufacturers. Additionally, the user can work with generic sleeve systems or import his own user-specific implants into the library to meet special requirements.

Two planning modes

coDiagnostiX **EASY mode** allows simplified implant planning with intuitive step-by-step user guidance for simple cases and less experienced users. **coDiagnostiX STANDARD mode** offers detailed functions with sophisticated options for complete customization.

“ coDiagnostiX is a very easy software to use and hence it can be used not only by specialists (either in a dental clinic or in a digital imaging and planning support center like ours) but also by dentists who desire to digitally plan their cases but are time-constrained. Another practice-enhancing aspect of coDiagnostiX is its functionality for presenting cases to patients, including an iPad App for patient communication.

Based on my experience with coDiagnostiX software and surgical guides, I can say it is second to none and would recommend it to any dentist wanting to use the full advantages of digital implant planning.”

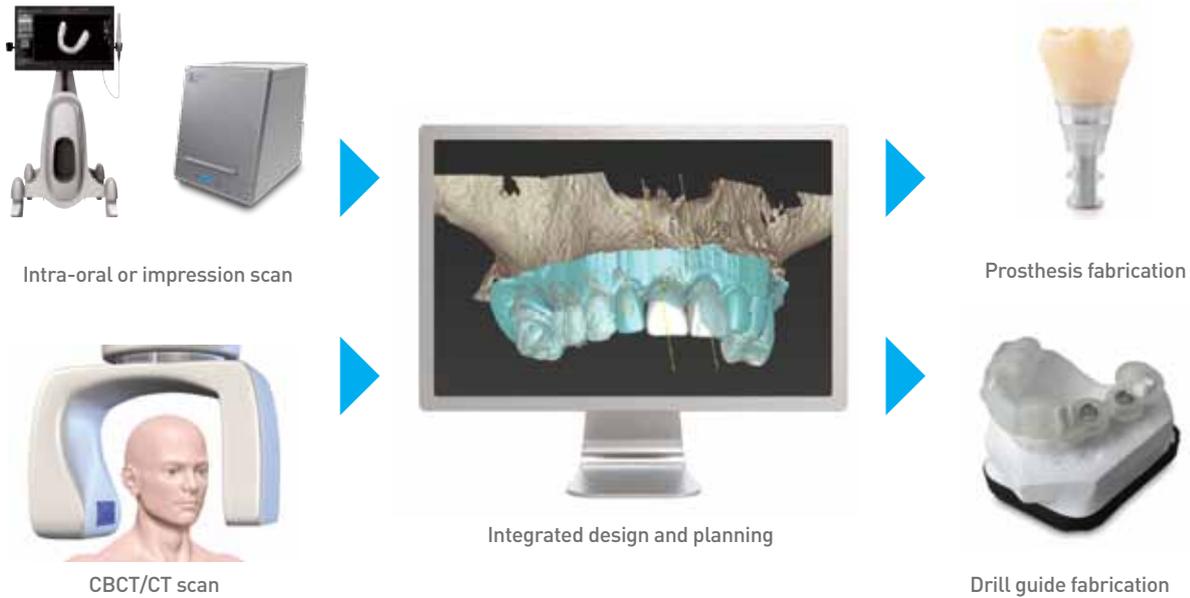
Robert Slominski

Co-owner and Managing Director, Dental Crafters and Implant Solutions
Marshfield, Wisconsin, USA

guided surgery

New digital workflow with coDiagnostiX

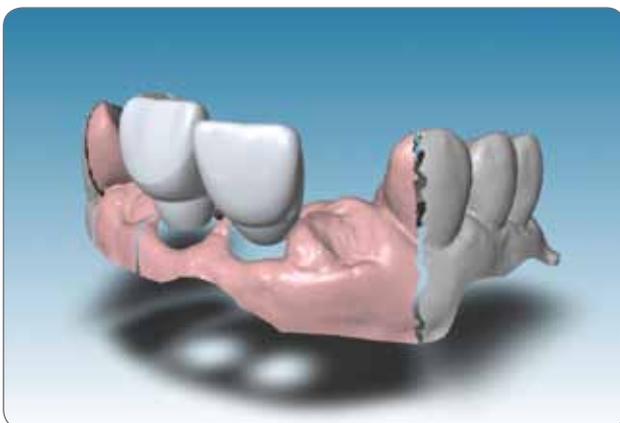
coDiagnostiX V9.0 now offers a new groundbreaking guided surgery workflow which integrates both drill guide and prosthesis design and fabrication.



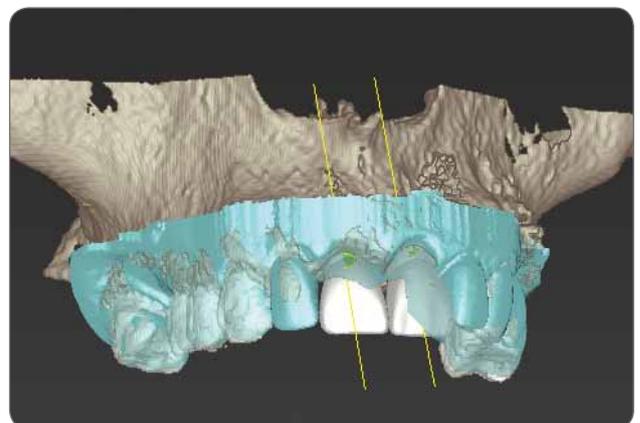
Seamless connection of preoperative and prosthetic procedures

Prosthetic-driven planning

Comprehensive visualization and real prosthetic-driven implant planning enable users to achieve predictable results in advanced surgical applications. Direct import of prosthetic designs from DWOS CAD into coDiagnostiX allows for the integration of preoperative and prosthetic situations and marks a new era in prosthetic-driven implant planning.



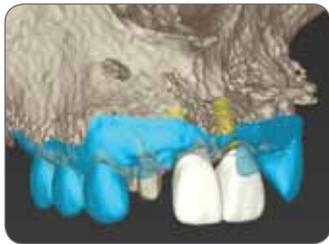
Restoration design



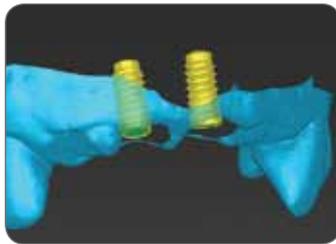
Implant planning

Immediate provisional restorations

The export of preoperative planning data from coDiagnostiX into DWOS CAD allows the design and fabrication of preoperative provisional restorations. With timely and easy access to immediate provisional restorations, clinicians can significantly improve the quality of life of their patients and help to foster patient satisfaction during treatment.



Prosthetic-driven planning



Export of planned implant positions



Import of planned implant positions into design session



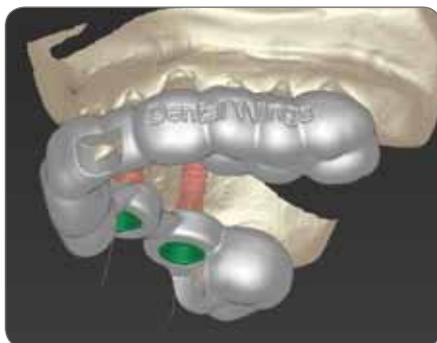
Provisional restoration

New digital drill guide fabrication

coDiagnostiX V9.0 is the first and only software on the market to support digital drill guide design and fabrication directly through the local laboratory.

Additional features:

- No scan template required for digital drill guide fabrication
- Time and cost saving due to a new comprehensive digital workflow
- Economical guide fabrication through automated high capacity 3D printing or milling



Drill guide design



3D printer



3D printed drill guide

guided surgery

caseXchange

caseXchange is an integrated communication platform allowing seamless communication between specialists, referring dentists, laboratories, service providers and patients. It offers online case sharing with other coDiagnostiX users and is ideal to get a second opinion from a colleague. With caseXchange treatment planning becomes a truly collaborative process and ensures that all parties' expectations are met.

GP/Specialist

- Impression
- Surface scan
- Preoperative planning
- Drill guide design
- Verification
- Guided surgery

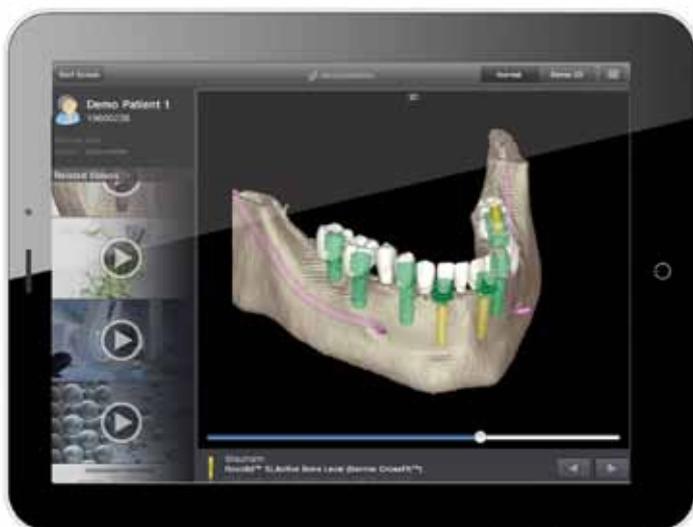


Dental technician

- Model scan
- Drill guide design
- Provisional fabrication
- Drill guide fabrication

3rd party service provider

- DICOM import
- Surface matching
- Drill guide design
- Verification
- Drill guide fabrication



iPad® Application

The coDiagnostiX iPad® App allows convenient and stylish presentation of coDiagnostiX planning data using the Apple iPad® and is ideal for the communication with patients, referring dentists or other colleagues.



abutments & SRBB

By taking the full clinical situation into account, the comprehensive design strategy enables one step design of complete implant restorations. The application automatically computes the anatomy to fit the designed abutment, while the framework design is dynamically adjusted to the prosthesis morphology. Thus, in one session, the three components are generated: custom abutment, framework and full contour.

Implant custom abutments

DWOS ensures full control of the abutment's critical parameters: emergence profile, clinical aspect, abutment screw opening and screw channel extension.

The automatic management of parallel axes ensures perfect insertion of the bridge over abutments. Screw-retained bridges can be designed using the same easy approach as a regular bridge combining pontics with custom abutments.

Access to a wide range of implant systems

Our implant library contains an extensive range of implant systems that allows direct design of customized abutments as well as abutments on titanium bases. Additionally, users have the flexibility to create their own implant libraries.



Single custom abutment



Abutment and overpress



Gingival area editing



Bridge design upon implant abutment



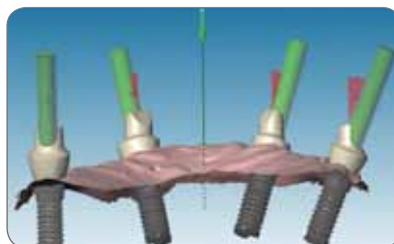
Screw-retained bridge



Implant library



Screw channel extension



Parallel axis groups for abutments

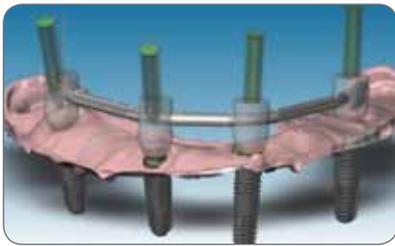


Angled screw channel for custom abutment

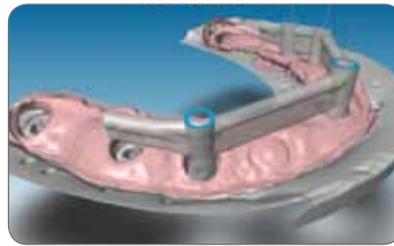
abutments & SRBB

Advanced bar design

Several types of implant bar designs are available, including: round, Dolder, Hader and milled. Each bar segment can be set to a different profile, which can be used to create extensions. The bar axis is set interactively. If gingival surfaces exist, the bar will be adjusted to fit the gingiva anatomically. Bar pillars taper angle can be adjusted in height and angulation between implant axis and bar axis with an easy drag 'n' drop.



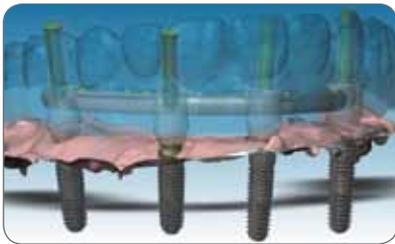
Round implant bar



Hader implant bar



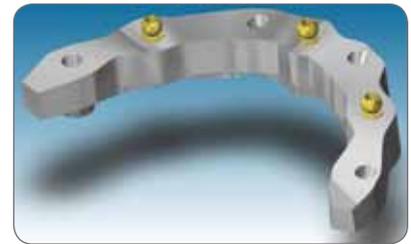
Milled implant bar



Implant bar editing



Bar with attachments



Milled bar with Rhein attachments

Implant bar segments

Implant bar segments can be either single or multi-planar and the user can access each segment easily. Moreover, implant bar segments can be mixed, when needed. Upon design finalization, a fully configurable, interference correction between the bar and the gingiva is automatically generated.

“ I have owned a 3Series for three years and have gained great confidence that Dental Wings will always keep me up to date with the latest evolving technologies. I particularly appreciate the ability to have direct access to outside production centers and new implantology workflows without sending models. This has increased our product offering, productivity and simplified our production workflow.”

Franck Benavent
Director, Laboratoire de prothèse dentaire Benavent,
Pernes les Fontaines, France

Full virtual wax-ups for SRBB

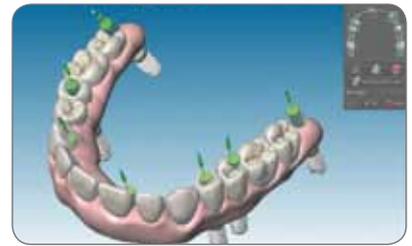
Our workflow eliminates the arduous need of handcrafting a wax-up. The software will automatically generate a full arch wax-up bridge on implants and its corresponding soft tissue aligned using the appropriate occlusal table. The design can be easily modified with the shaping tools and the movements of anterior or posterior sectors as independent entities can be simulated. Thus, teeth alignment and placement is accomplished with ease.



Full virtual wax-up - alignment



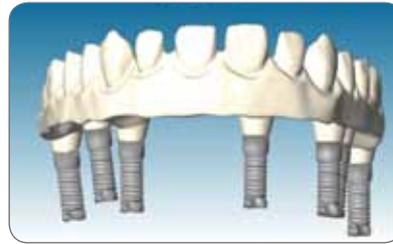
Customizable gingiva line



Full virtual wax-up - axis adjustment



Full virtual wax-up with gingiva



Screw-retained bridge in zirconia



Screw-retained bridge in titanium

Model Builder workflow with implants

After importing an intra-oral or impression scan of an implant case, the Model Builder application enables precise repositioning of the implant locator. It will then create a precisely localized hole so that the analog can be easily snapped into the 3D printed model. Also, a removable gingival area can be defined so that a separate manufacturing file is generated for it.



Intra-oral scan



Analog positioning



Soft tissue design



Socket



Analog socket



Final restoration



crown & bridge

The Crown & Bridge application is the foundation of the prosthetic-driven workflow within DWOS. Its extensive features and capabilities are able to meet the most demanding situations.

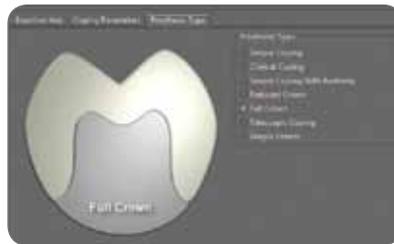
Unparalleled flexibility

DWOS meets labs' needs for flexibility by allowing them to manage the unexpected. DWOS enables lab technicians to maintain their creativity and freedom without imposing on them a step-by-step design approach.

- **Import and export STL files across applications:** re-use previous designs such as wax-ups or antagonist, import additional patient information such as facial scans or jaw bone CBCT/CT scans.
- **Change indication during design session** at any time without restarting the full process from the beginning. Examples include change from a simple coping to full crown, split a bridge into three because of diverging preparations or remove a pontic as a result of lack of space.



Jaw bone scan imported



Change indication

Intuitive and user-friendly editing tools

The easy-to-use advanced editing features are designed to save users time. The familiar dental tool references used across the whole software platform ensure that users are comfortable with the application. DWOS global editing tools facilitate the design by allowing to switch between editing tools on any given prosthesis.

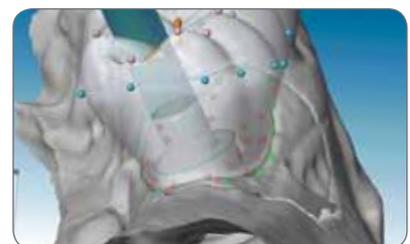
- Global transforms enable users to freely scale, rotate and position the active design object
- Simultaneous cross-arch design capability
- Virtual waxer simulates the regular waxing knife, but gives free-form access to using the morphing mode
- Occlusion correction
- Clinical handles with transparent viewing ensure morphologically correct designs
- Real-time cut-back computation
- Automatic minimum thickness adjustments
- Wax-up adaptation



Virtual waxer



Global transforms

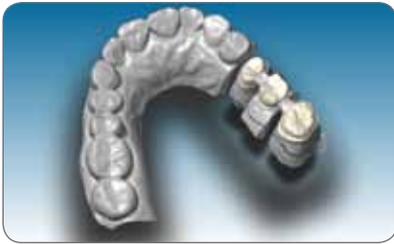


Clinical handles with transparent viewing

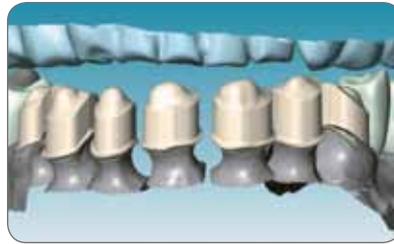
Extensive design capabilities

The Crown & Bridge application includes a multitude of design features to manage all aspects of a digital restoration:

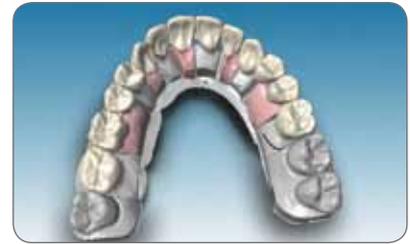
- Full contour crowns
- Copings and bridge frameworks
- 3/4 crown with retention beads
- Telescopic crowns (parallel axis groups)
- Anatomical telescopes
- Full contour bridges
- Inlays, onlays and veneers
- Overpressed crowns and bridges
- Hollow pontics
- Mirror anatomy of contralateral



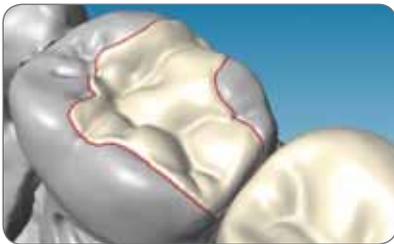
Framework



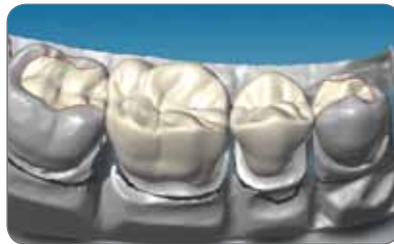
Telescopic units



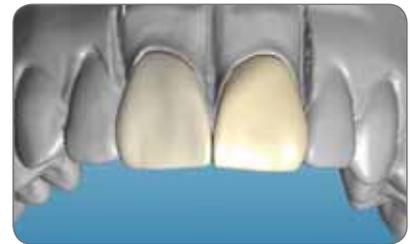
13-unit bridge with full restorations



Onlay automatic proposal



Bridge with two inlays



Veneers



Attachment



Overpressed on bridge



3/4 crowns with retention beads

“ There is currently no CAD/CAM system on the market that better addresses the needs of a Central EU Dental Lab. For example, more than 50 % of our fixed dental restorations are 3/4 crowns with mechanical retentions. Producing these restorations digitally with DWOS is fast and simple. It has led to a significant increase in quality and has provided us with a real competitive advantage.”

Jiri Sedlacek
Owner, JS Lab
Brno, Czech Republic

crown & bridge

Base Crown & Bridge Wizard

Full contour crowns and bridges can easily be created with the C&B Wizard. It guides the user through the entire process, from scan, design to generation of the production files. Technicians with minimum training can generate production-ready crowns and bridges with ease.



Live video preview of model to scan



Definition of dental points

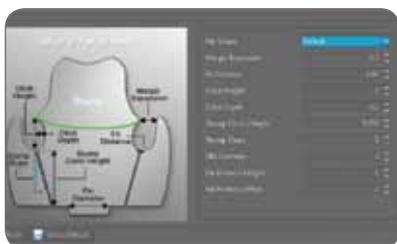


Automatic full crown proposal

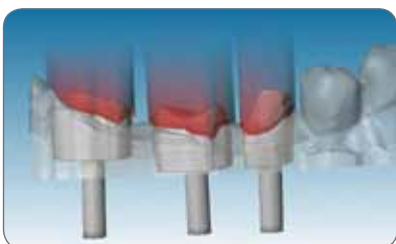
Model builder - crown workflow

The Model Builder application meets the requirements associated with intra-oral and impression scans. It offers a unique opportunity for laboratories to replace their current manual model-making processes with the software's ability to digitally generate the equivalent components from the scan data with the labs' manufacturing process of choice. Physical articulated models with cut, pinned and ditched dies can be mass produced. The following is an outline of the procedure:

- Scan or import scan files (both arches if available)
- Virtually clean or eliminate unnecessary scan surfaces and repair any imperfections (e.g. filling holes)
- Generate watertight models (upper and lower)
- Define margin on dies
- Virtually ditch the dies, cut and generate keyed pins
- Define and generate a single or dual pinned articulator. Vertex articulator slots can also be generated at the model ends if desired.



Stump parameter editing



Insertion axis



Margin definition



Virtual die extraction



Geller model

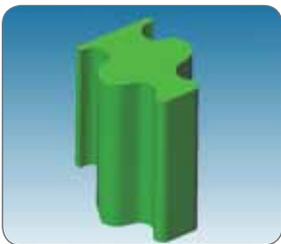


Geller model - open

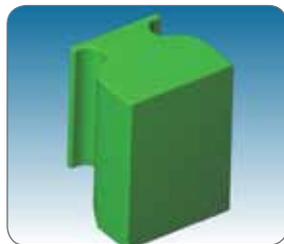
Libraries

DWOS is delivered with several complimentary libraries. Additional libraries are also available and can be imported directly from the Dental Wings website. As an open platform, DWOS enables users to create their own libraries or customize existing ones. The following libraries and kits are available:

- Material libraries
- Anatomy libraries (Merz, Vita, Candulor)
- Implants kits
- Articulators
- Attachments (Rhein83, Bredent)
- Smile libraries



VarioSoft 3 mini sv (Bredent)



Variosoft OC (Bredent)



ot cap normo (Rhein 83)



Customizable anatomy library

A large variety of anatomy libraries



Artegral (Merz)



Vitapan (Vita)



Condyloform® II NFC (Candulor)



Deltaform (Merz)

Occlusion simulation

A design session within DWOS can be enhanced with our virtual articulator. The precise occlusion simulation significantly reduces the time required for chairside occlusion adjustments, facilitating the overall in-mouth seating procedure.

Our virtual articulator improves the dental prosthesis design by adding kinematic analysis to the static design process. It highlights the occlusion contact zones and automatically proposes the required prosthesis design modifications.



Articulator with multi-split plate



Articulator with compatible plate



Articulator in excursion



partial frameworks

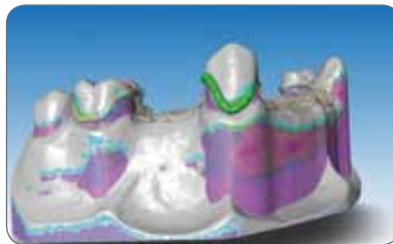
The Partial Frameworks application provides intuitive design tools that transfer a dental technician's know-how into a digital environment. End results are simply amazing. Highly accurate partial frameworks are designed in less than 10 minutes, ensuring significant savings in both time and materials.

With data originating from any open 3D scanner, DWOS provides an intuitive virtual approach that streamlines the traditional steps of frameworks creation:

- Definition of path of insertion with the assistance of real-time undercut measurement
- Automatic block out of undercuts for better retention and insertion
- Palatal plate outline or inferior bar from preset preferences
- Clasp design using preset preferences with the freedom to adjust them in real time
- Ability to freeform draw retention grids and acrylic finish lines
- Connector design and occlusal rest with automatic occlusion adaptation with opposing model
- Pin addition for artificial teeth
- Attachment addition
- Casting support bars



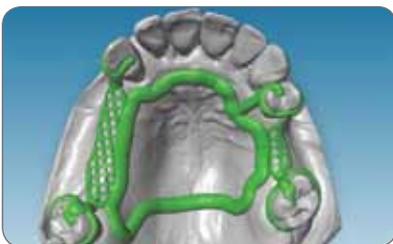
Insertion axis definition



Freeform clasp design



Color scale showing undercut depth in mm



Design versatility - upper arch



Upper partial framework design



Result simulation with teeth placement

Fully integrated with Crown & Bridge application for advanced combined designs

The Partial Frameworks and the Crown & Bridge applications are designed for total integration, ushering in a new era of combined prosthesis design with digital data exchanges and attachment axes management. The integration between the two modules allows the technician to combine the simultaneous design of the removable and fixed restoration with ease.



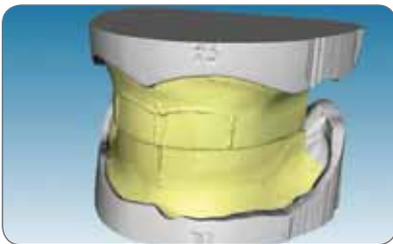
full dentures

DWOS provides an easy and efficient way to digitally design full dentures. Intuitive tools help the dental technician execute a familiar workflow in the digital world in less time and take advantage of the highly esthetic automatic tooth arrangement proposal.

Dental technicians will appreciate the highly esthetic and functional design of each tooth, as well as perfect occlusion of the denture templates.

The typical workflow:

- Scanning of jaw models and occlusion key
- Model analysis
- Initial tooth arrangement proposal
- Manual adjustments with the tooth arrangement designer (optional)
- Occlusion check using the virtual articulator (optional)
- Design of natural esthetic gingiva
- Export denture design for manufacturing



Occlusion key



Baseplate design



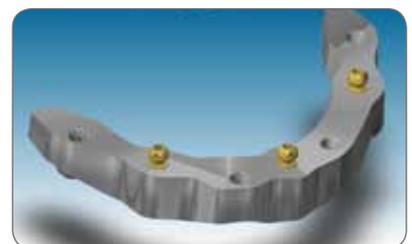
Model analysis



Pre-configured arrangement template



Final denture design



Milled bar with locator attachments

Fully integrated with the SRBB application for advanced combined designs

The Full Dentures and SRBB applications are designed for total integration, bringing simplicity to implant supported denture design and fabrication. The ability to design “prosthetically-driven” implant bars based on the simultaneous virtual denture propositions allows technicians to achieve an advanced degree of functionality and esthetics never before possible.



smile maker

DWOS Smile Maker application paired with our facial scanner takes treatment planning to a whole new level. With Smile Maker and Facial Scanner, practitioners can be confident that their treatment plan acceptance rates will rise and their reputation as “high-tech” dentists will grow.

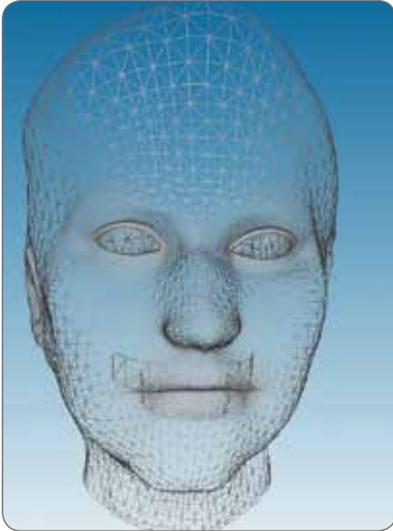
Treatment plan acceptance

Patients are most inclined to accept dental treatment plans when they have a clear visualization of the final outcome and how it is achieved.

The Smile Maker application takes patient communication and treatment plan presentation to an exciting new level. Using the handheld chairside Facial Scanner, practitioners are able to create amazing 3D patient avatars in only a few minutes. The practitioner then animates the avatar and shows the patient “before and after treatment” images of their smile and facial anatomy from all angles.



Patient's face being scanned with Facial Scanner



3D rendition



Mapping

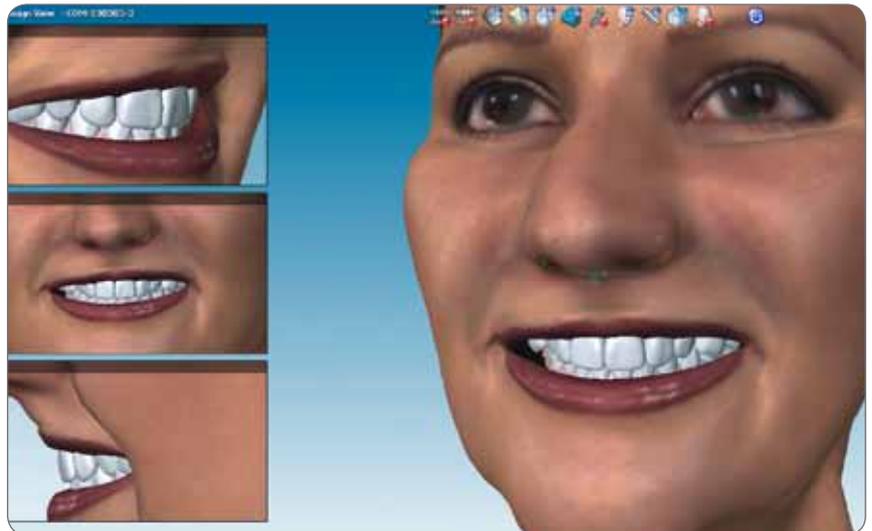
Animated patient avatar

User-friendly animation and design tools within Smile Maker allow the practitioner to engage the patient in a collaborative process of designing their smile. Should the patient need to consult with family members before committing to the treatment plan, the patient's avatar can be viewed online at home.

Once the treatment plan is accepted, the avatar is transmitted to the practitioner's lab through DWOS Connect where it is used to fabricate the prescribed prostheses to meet the exact expectations of the patient and clinician.



Face scan



Smile design



3D scanners

Dental Wings offers three distinct scan and design systems to meet varied needs and budgets. Whether the user is a small clinic or large lab, design outsourcer or in-house manufacturer, all dental professionals can find a system that best meets their needs.

Proven and reliable technology

Dental Wings scanners are non-contact, optical 3D scanning devices. Each combines proven laser triangulation technology with three or five axes of freedom. Superior resolution is achieved by using high-speed cameras with reduced field of view.

Accurate and predictable

Our scanners are subjected to stringent cycle of testing and metrological analysis. They consistently digitize a preparation within 15 μm of accuracy.

Dental Wings has also implemented a new scanning mode for screw-retained bars and bridges (SRBB). Using a stringent calibration procedure, proprietary scan bodies and innovative scanning strategy, Dental Wings scanners deliver very high accuracy scans as demanded by SRBB applications.



SRBB calibration bar

Plug 'n' play installation and ease of use

The Dental Wings scanners are designed to be "plug 'n' play" systems. Their powerful embedded computer and pre-installed DWOS applications allow users to begin scanning in less than 30 minutes following delivery. Moreover, the platform's user-friendly and ergonomic interface, coupled with advanced scanning strategies, make the scanners intuitive and easy to operate.



Approved by 3M ESPE

3M ESPE has approved the use of Dental Wings scanners to design Lava™ material prostheses. Our devices proudly wear the official Lava™ Materials Approved label.

The Multi-die Scan & Design Wizard

This application targets mass production of copings. This Wizard delivers the fastest scan and design process available for copings. Simply mount the dies on the multi-die holder of the 7Series or 3Series scanner and initiate the scan. The Wizard does the rest: it scans and generates final designs completely unattended. Upon completion, if desired, the user can make design changes to reflect any special requirement of the doctor's prescription.



Automated scan & design
(30 copings for 7Series)

Extensive scanning applications

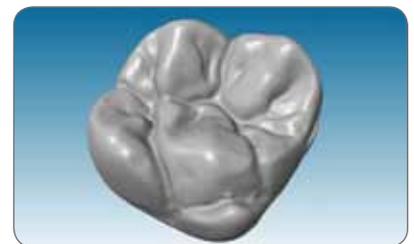
Our 3D scanners deliver the highest productivity of any existing solution on the market. Thanks to the parallel scan, auto-margin, auto-insertion axis detection and auto-design computation features, the Dental Wings 3D systems are in a production class of their own. They provide the most extensive range of scanning applications in the dental market.



Bridge with onlays



Full arch scan in occlusion



Morphology replication for anatomy kit



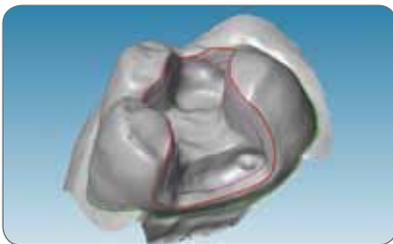
Diagnostic wax-up and gingiva



Full model for partial design



Wax-up replication



Inlay/onlay



Cleaned impression scan from triple tray



Multiple implant locators

“ Our team was won over by the user-friendliness and breadth of the current and future capabilities of the DWOS software that allows us to handle a wide variety of prosthetic cases. Importantly, as an open system, DWOS allows us to work with a multitude of partners with very different equipment configurations. Our lab has experienced significant productivity gains by using the multi-die scanning option. It allows us to scan and design 30 elements in 15 minutes; once the first scan is finished we can start designing that element while the scanner continues to scan the others. ”

Bongert Pascal
Manager, Laboratoire Bongert
La Roche sur Yon, France

iSERIES

impression scanner

The iSeries scanning solution was designed to be the easiest way for practitioners to transition to digital dentistry. With its compact design, embedded computer and simple semi-automatic operation, the iSeries allows anyone on the dental team to quickly digitize traditional impressions. Once the impression scanning is completed, the data is automatically transmitted to the “DWOS Connected” laboratory of your choice. Within seconds the lab has in its possession all the information it needs to begin fabricating your prescribed restorations. The process could not be simpler, it is as easy as sending an email.



Change nothing – go digital

Without changing a thing with your current impression-taking protocol, having the iSeries in your dental office allows you to dramatically improve your restorative options and change the fabrication workflow.

Provides a proactive approach: enables dentists to play an active role in relation to the information being sent to the lab, i.e. to catch and correct preparation or impression uncertainties while the patient is still in the office.

Captures all important clinical information: while sub-gingival information is very difficult to obtain with intra-oral scanners, it is easily obtained by digitizing impressions.

Improved accuracy: enables immediate on-site precision scanning of fresh impressions and eliminates potential distortions of impressions during shipping.

Increased material options: enables clinicians to access the most advanced and trusted CAD/CAM restorative materials available, i.e. 3M Lava Pus, 3M Lava Ultimate, IPS e.max, VITA and more.

Reduced turnaround time: by eliminating the shipping of physical impressions, the turnaround time is reduced by at least 24 hours.

Economical and ecological: by sending the impression information digitally, the financial and environmental costs associated with the shipping of dental impressions are eliminated.

Improved lab productivity: within minutes of receiving your impression data, your “DWOS Connected” lab can simultaneously generate an articulated digital model and digital restorations to be fabricated in-house or with the help of outside production centers. This eliminates all the potential errors associated with the fabrication of plaster models and significantly increases fabrication productivity.

Integrated communication between clinics, labs and production centers through DWOS Connect ensures seamless logistics, case tracking and on-time deliveries.

Digital archiving: allows for the archiving of the digitized impressions, models and restorations.

Optimized scanning technology

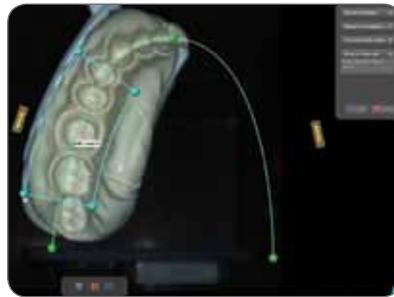
The scanning technology of the iSeries was optimized to address the varied constraints encountered when scanning impressions, including cases with deep narrow pockets that are frequently found with lower anteriors. The scanner has two sophisticated on-board measuring cameras placed at complementary angles. Its five axis movement allows optimal orientation of the impression with respect to the optical head for the best scanning accessibility. In addition, a live video camera enables the user to position each preparation scan so that the margin can be easily detected.

The 3D Scan Wizard

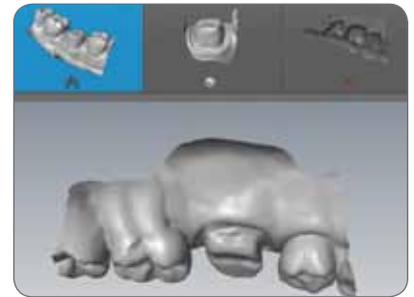
The 3D Scan Wizard enables any member of the dental team with minimal training to easily scan and transmit impression data to the lab.



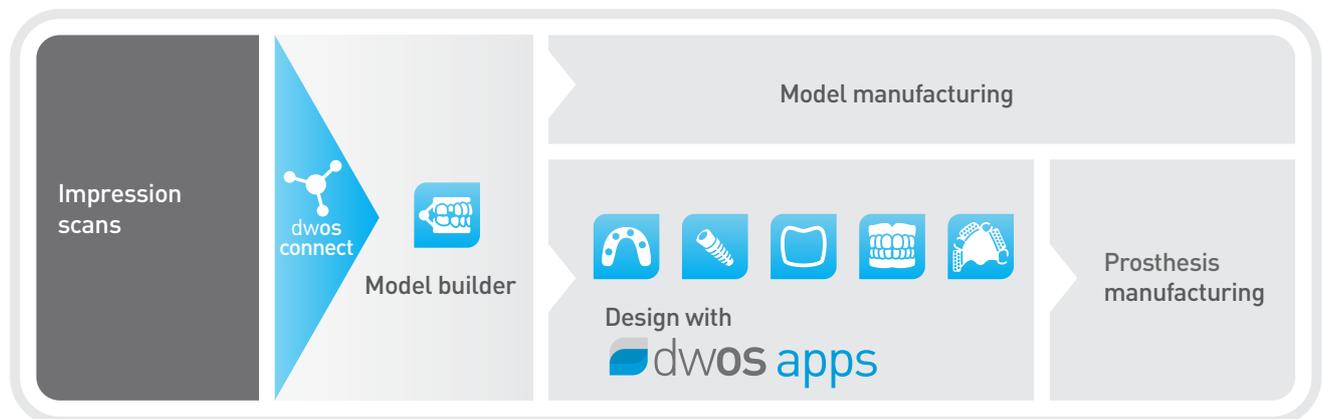
Start window



Video preview at scan



Scan result



“ My local lab began scanning my impressions with the Dental Wings impression scanner last year. We have been doing mostly full contour crowns with the technology and I have been thrilled with the precise fit and adaptation. My crown seating times are significantly shorter and remakes have been virtually eliminated. Additionally, my lab gets the crowns back to us within five days, which limits the time our patients are in temporaries. I could not imagine going back to the old method. ”

Dr. Allan Coopersmith
BSc. DDS. FAGD. FICD.
Montreal, Canada

7SERIES

impression & model scanner

The 7Series is well suited for the medium to large dental laboratory, where high volume throughput is required and versatility is a must. It is embedded with a powerful PC and is delivered with a full package of DWOS applications.

Bringing unprecedented performance and productivity

The 7Series performance is the result of a combination of years of mechanical engineering experience with state-of-the-art component technology. Its diversity allows it to scan both stone models and impressions, a capability found in no other scanner.

The optical cameras set-up, running with a 64-bit processor and five axes of freedom, produces superior scanning volume performance with a high degree of accuracy. This accuracy allows the 7Series to produce scans for precise prosthesis marginal integrity and fit, for a wide variety of dental indications. Its large scan volume, 140 mm x 140 mm x 140 mm, provides access for larger fully articulated models. Thus, be it a single preparation or a full arch scan, the 7Series delivers with technical superiority and agility.

- High precision scanning of both models and impressions
- Automatic Scan & Design Wizards
- High capacity die scan and design – 30 copings in 15 minutes
- Simultaneous opposing arch design
- SRBB calibration kit available
- On-board computer with 64-bit processor
- DWOS Connect enabled



“ In my opinion Dental Wings is leading the industry with practicable solutions. Our productivity has increased dramatically since we integrated the 7Series and exploit its double-power workflow, scanning both impressions and models. By scanning impressions and immediately generating a highly esthetic and functional temporary we satisfy our client needs for fast turnaround. The accuracy and consistency of Dental Wings system is impressive. ”

Andreas Ebell gen. Schulte,
Dental Technician Master
President and Owner, Zahnklinisches Prothetik-Labor
ZZI ZahnZentrum Ingolstadt, Germany

3SERIES

model scanner

The 3Series is a compact model scanner embedded with a powerful PC and offered in flexible DWOS configurations. Ideal for small and medium dental laboratories, it is particularly well suited for the outsourcing business model.



A customizable and affordable solution

The 3Series is an entry level plaster model scanner delivered with basic DWOS applications. It offers the ultimate flexibility for the lab wishing to embrace CAD/CAM technology at its own pace, while keeping costs to a minimum. As your business grows and your requirements expand, you can add individual applications as needed.

High performance

The 3Series is compact for desktop use with state-of-the-art technology in its smart optics and high precision mechanical components. It is powered by a 64-bit processor and produces fast, high quality scans within a compact 90 mm x 90 mm x 90 mm scan chamber.

- High precision scanning of models
- Automatic Scan & Design Wizards
- High capacity die scan and design – 12 copings in 10 minutes
- Simultaneous opposing arch design
- SRBB calibration kit available
- On-board computer with 64-bit processor
- DWOS Connect enabled

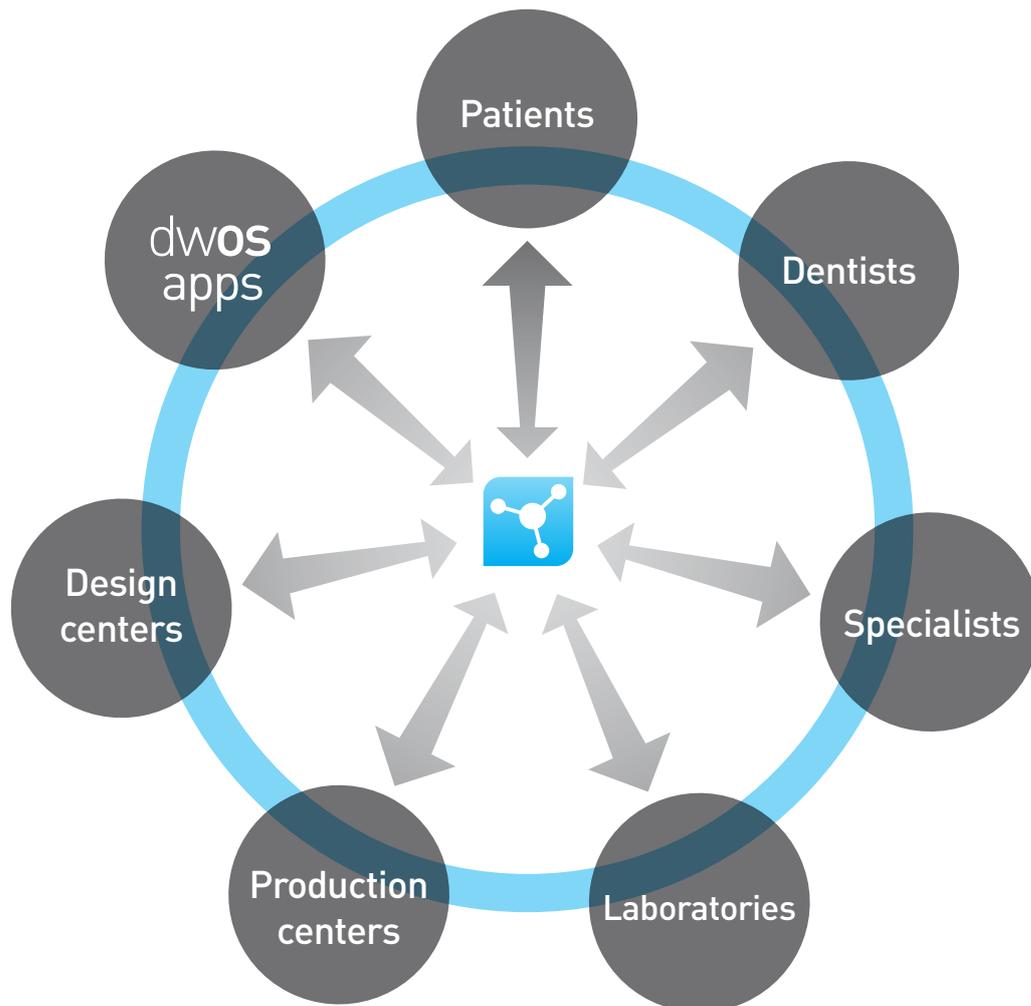
“ Over these years I have used several CAD/CAM systems, including Dental Wings. Immediately upon using my new 3Series I appreciated its scanning speed and precision, the easy and intuitive handling, the effective and versatile dental-design and in particular the freedom to work with the whole world! ”

Luigi De Stefano
Laboratory Owner
Salerno, Italy



connect

DWOS Connect links dental professionals through a common communication and data exchange network. Any DWOS user can easily be connected to this network. Dentists, laboratories and production centers can collaborate on a specific case by sharing all related case information.



“Our Group operates a lab network in several countries: China, Taiwan and Japan. We have been using Dental Wings Technology since 2009 and have dozens of scanners throughout our network. Dental Wings helped us install a distributed architecture that when combined with DWOS Connect allows our managers to share our CAD resources amongst our labs.

All in all, the DWOS platform adds great value for our customers by integrating, optimizing and simplifying the whole digital production process.”

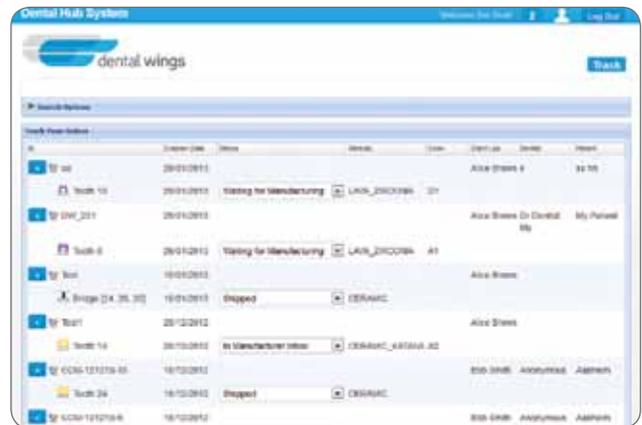
Jerry Lin,
President, Shimmer Group

Access public production and design centers

DWOS Connect provides you with a list of DWOS registered production and design centers in your local area as well as around the world. Find the expert partners you need to expand your product offering and production capacity with DWOS Connect.



Web interface - order creation



Web interface - tracking



Mobile interface - tracking



Mobile interface - 3D viewing

Public DWOS Connect

DWOS Connect is available worldwide. Dentists, dental labs, production centers, and all other dental service providers can access DWOS Connect. Simply select the production center of choice and send your order. The selected production center will send a notification receipt within a few minutes of receipt of the order.

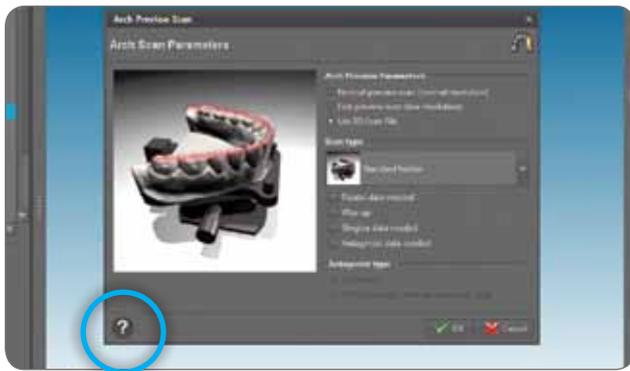
Private DWOS Connect

Based upon DWOS Connect proven technology, build your own private network and manage your own users. Several private networks are already in operation and thousands of users are benefiting from the connectivity.

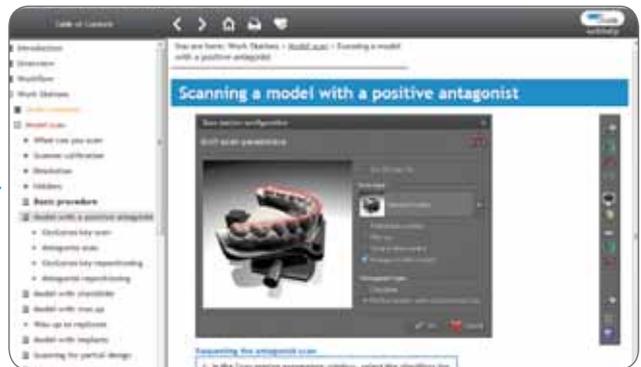
At Dental Wings, we recognize that on-the-job learning is critical in our industry. As dental technicians transition from analog to digital, our learning support allows them to remain productive as they learn. Our E-learning tools provide context sensitive online help in a variety of media formats: written text descriptions, “how to” videos, the Dental Wings YouTube Channel and much more. All made available at the press of a button with the latest software enhancements.

Integrated help

Throughout the DWOS software, you will find a WebHelp icon. Clicking on it will take you to a page containing information and instructions related to that specific subject and context being questioned. With a click, you have access to the entire paperless DWOS User Manual with contextual relativity.



Clicking on WebHelp icon in the software



...brings you to concerned page of WebHelp

Video tutorials

Our video tutorials are designed to support your on-the-job learning. Ranging from the basic workflows to the most advanced features, video demonstrations of the step-by-step processes will enable you to fully exploit the productivity potential of DWOS.

“ We are one of the leading dental laboratories in Europe. Dental Wings technology has made what seemed impossible not to long ago, possible today. One of the most helpful features of the system is that we can scan and design at the same time, dramatically increasing our productivity! The scanners are easy to install, designing is very intuitive and their after sales support is great. Thank you Dental Wings! ”

Berkant Oztas

Quality Management and Sales Assistant Director, DENTEK A.S

Izmir, Turkey

7SERIES



3SERIES



iSERIES



Technology

Optical	Light source	Laser, class 2, FCC registered		
	Measuring camera(s)	2	1	2
	Video camera	1	1	1
Mechanical	Number of axes	5 (3 rotative, 2 translative)	3 (2 rotative, 1 translative)	5 (3 rotative, 2 translative)
	Scanning volume (mm x mm x mm)	140 x 140 x 140	90 x 90 x 90	90 x 90 x 90
	Full arch scans	Yes	Yes	Yes
Computer/OS		Core i7 8 Gb memory 1Gb graphic card	Core i5 8 Gb memory 1Gb graphic card	Core i5 8 Gb memory 1Gb graphic card
		Embedded, Windows 7, 64 bits		
Output format	STL & supported partner formats			

Performance

Scannable materials	Plaster (all colors) Wax-up Silicone & alginates	Plaster (all colors) Wax-up	Silicone & alginates Plaster (all colors)
Accuracy (µm) ²	15	15	15
Simultaneous scan & design	Yes	Yes	Yes
Impression scans	All	N. A.	All
Multi-die mode	Number of elements	30	12
	Scan & design time	15 min. (unattended)	10 min. (unattended)
Articulator compatibility	Yes	Yes	N. A.

Software applications

Guided Surgery	Optional	Optional	Optional
Abutments & SRBB	Included	Optional	Optional
Crown & Bridge	Included	Included	Optional
Partial frameworks	Included	Optional	Optional
Full Dentures	Optional	Optional	Optional
Smile Maker	Optional	Optional	Optional

Dimensions (W X D X H cm)	Crated	61 x 53 x 79	52 x 54 x 64	52 x 54 x 64
	Uncrated	43 x 43 x 45	33 x 39 x 41	33 x 39 x 41
Weight	Crated	32.0 kg	28.7 kg	28.7 kg
	Uncrated	22.0 kg	20.0 kg	20.0 kg

Voltage

110/220 volts

Certifications

TUV, CE mark

*Accuracy measured on single preparation using scannable plaster and impression materials.

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