

Technology designed the way you work

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### 3Shape Dental System<sup>™</sup> 2012

## Helping dental labs help their dentists

3Shape's Dental System™ 2012 carries forward 3Shape's global position as the market leader and creator of the world's most sold system for Dental CAD/CAM. 3Shape's high standing in the lab community is solidly based on solutions that are easy-to-use, offer most indications and enable maximum productivity. Now, with Dental System™ 2012, 3Shape has also become the only CAD/CAM provider truly bringing solutions designed to help labs build new services and stronger business relationships with their dentists.

3Shape's Dental System™ 2012 brings labs a whole realm of new opportunities for increasing their productivity and expanding their customer base.

Known throughout the dental industry as the most powerful CAD/CAM system in the world, 3Shape's Dental System™ provides 3D scanning, CAD modeling, order management, intraoral scanning, dentist-lab communication, and interfaces to essentially all manufacturing equipment and materials.

No other CAD/CAM system on the market supports the comprehensive width of dental indications and dentist-services enabled by the 3Shape Dental System<sup>TM</sup>.

3Shape's Dental System™ is backed by professional technical customer support and dedicated 3Shape Academy training programs.

3Shape's Dental System™ is highly flexible offering solutions matched to labs of any size and business model.

New in Dental System<sup>™</sup> 2012











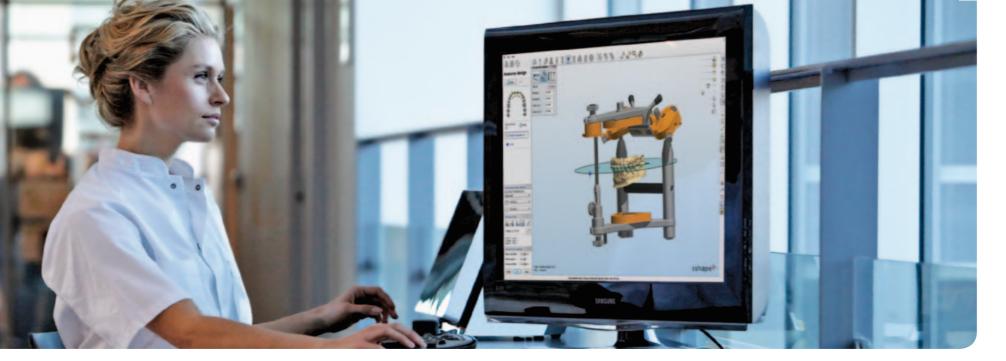






D500 Scanner, Texture Scanning, TRIOS<sup>®</sup> intraoral scanner, Model Builder™, 3Shape Communicate™, Virtual Preparation & Temporaries, 2D image overlay, Optimized Virtual Articulator and Smile Composer™





"3Shape Dental System is an excellent instrument that we like to use and employ, and which is a great supplement to the traditional way we work. I think it is engineered very well - it represents the future."

Kurt Reichel Reichel Zahnteknik Germany

## Join the Winning Team of Dental Technicians!

The global CAD/CAM market is evolving rapidly and for dental labs considering a move into digital dentistry, the alternatives are many. It has become of paramount importance for lab owners to make the right choice among systems, a choice that will add business value, ensure their lab's future, and expand their possibilities rather than restrict them. Not all CAD/CAM system providers can make these promises. 3Shape can and here's why ...

### Superior innovation power

With more than 100 full-time developers dedicated to 3D solutions. 3Shape leads the market with unmatched innovative power, providing systems that are designed not only for today, but also for the future of digital dentistry.

### Empowering real dental technician work

3Shape's highly acclaimed solutions are designed to produce advanced real dental work while releasing the technician's artistic touch and unique talents. Dental System™ is the result of close cooperative liaison with leading dental technicians in the field. No other CAD/CAM solution on the market offers so many dental indications.

### Automation unleashing productivity

3Shape's user-acclaimed Dental System™ is designed to support familiar workflows, helping dental labs maintain their professional edge over competitors through complete automation of many traditionally manual tasks. 3Shape's scan and design processes are the market's fastest, and provide an initial computer-proposed design of unique quality.

### Helping lab's help their dentists

With new innovations such as TRIOS® and Communicate™, 3Shape has become the only CAD/CAM provider truly bringing solutions designed to help labs build new services and stronger business relationships with their dentists.

### Open flexible business model

3Shape Dental System™ is praised worldwide for its unrivaled versatility and ability to interface with virtually all manufacturing equipment and materials. Regardless of a laboratory's size, location, existing equipment and preferred business strategies, there will always be a 3Shape solution to match its current and future needs.

### #1 - Thousands of labs all over the world

In many thousands of labs and more than 60 countries worldwide, 3Shape's Dental System™ is breaking records for high productivity and user satisfaction, reaching the market's #1 record for units produced per day by dental technicians.

### Our Vision - the Full Digital Dental Lab

## CAD/CAM is changing the competitive arena and the industry

The age of the full digital lab is closer than most realize. For many years Zirconia copings and frameworks were the main drivers for CAD/CAM systems. But with the increased capabilities and improved manufacturing support of some CAD/CAM systems, a much wider number of profitable indications have been introduced. For technicians and lab owners, embracing CAD/CAM is a necessary choice towards securing a prosperous future - and choosing the right system is critical.

Digitalization is being driven "fast-for- rious challenge for many labs and the busi- 3Shape urges labs to seek a future secure ward", propelled by a combination of continuously increased CAD/CAM productiv- fective answers. ity, advanced CAD capabilities that deal with even advanced clinical situations plus Adaptation of digital methods is increassupport for high quality manufacturing.

CAD/CAM-created restorations not only represent cost reductions, but also assure higher clinical quality. With the combinatoday rather than tomorrow. tion of faster turnaround times and attractive prices obtainable by CAD/CAM, traditional manually created restorations are manufacturing partner and technology are quickly becoming uncompetitive.

Additionally, off-shoring of restoration can make work to low-cost countries is posing a se-

ingly defining the success of dental busi- facturing equipment, flexibility in relation nesses and the labs that move to meet to materials, and the extent of workflows this challenge will be the labs that grow that truly add new value to lab business. - and it is probably better to get moving

Choosing the right CAD/CAM system, the most critical business decisions a lab

ness advantages of CAD/CAM provide ef- investment and consider key parameters such as the scope of dental indications supported, openness to other current and emerging systems, integration with manu-

> 3Shape remains true to its vision for the future and has no doubts that its Dental System<sup>™</sup> will be able to digitally create all work made in dental labs. Our latest innovative Dental System™ 2012 is a huge leap forward toward reaching this goal.

Our Vision - the Full Digital Dental Lab 5 4 Join the Winning Team of Dental Technicians!

## Looking inside 3Shape Dental System™ Defining the next step for CAD/CAM dentistry

3Shape's Dental System™ solution embraces the total professional scope of modern dentistry. Dental System™ brings together accurate 3D scanning, intuitive CAD modeling, efficient order management and reliable communication tools to provide streamlined workflows that increase productivity.

### Efficient order management - for lab productivity

Dental System™ systematically organizes all case and production data. Orders can be searched, sorted and displayed according to selected parameters. On multiple workstations, technicians can work in parallel, while sharing files on-line.

### 3D scanners for impression and gypsum models

Dental System<sup>™</sup> offers a flexible product family with 3 series of scanner models: D500, D700 and D800. 3Shape's broad product portfolio gives labs the freedom to make the perfect investment in relation to their scanning requirements and production capacity.

### The World's most powerful CAD modeling software

Supports design of copings, bridge frameworks, anatomical modeling, inlay, onlay, veneers, pressed ceramics, customized abutments, sophisticated implant bars and bridges, removable partials, temps, wax-ups, telescopic crowns and more.

#### On-line communication with dentists and manufacturers

Labs can receive digital impression scans directly from the clinic. During design, technicians can send before-and-after treatment visualizations back to the clinic for feedback or approval. Completed orders can be safely transferred to manufacturers while monitoring production status in real-time.

Send to manufacturing - widest integration and flexibility

In various configurations, Dental System™ supports essentially all materials and manufacturing equipment, including 3-5 axis milling machines, wax printers, laser sintering machines and digital model making machines. The CAMbridge™ add-on module provides automatic preparation for milling and 3D printing.

















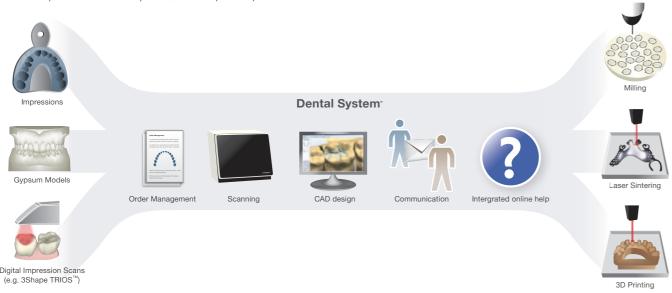


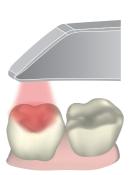






Dental System™ is the only CAD/CAM system you will ever need





### 3ShapeTRIOS® - 3D intraoral digitial impression solution

3Shape's TRIOS® intraoral scanner enables dentists to capture the patient's intraoral situation and immediately dispatch the order and digital model on-line - directly into the lab's 3Shape Dental System™. TRIOS® is designed to kick-start the digital workflow and strengthen business ties between labs and their dentist-clients.



### Integrated on-line help and support for many languages

Users are guided every step of the way with Dental System's™ comprehensive on-line user manual and training material. The 3Shape Dental System™ interface and help system supports multiple languages - currently: English, German, French, Italian, Spanish, Japanese, Russian, Portuguese, Korean and Chinese

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### 3Shape Communicate<sup>™</sup> NEW Dental System 2012

## A 3D picture says more than 1000 words

3Shape Communicate™ enables labs to send dentists 3D design visualizations for their use in discussions both with the lab and with their patient. In today's increasingly competitive climate, labs that provide supplementary services for their dentists are winning territory in relation to production-only labs. That's why 3Shape gives you Communicate™ - a new service opportunity that retains dentist loyalty, attracts new clients and gives your lab a competitive edge.

### Better services to dentists and their patients

tient satisfaction, and cement business Dental System™. relationships with their dentist-clients.

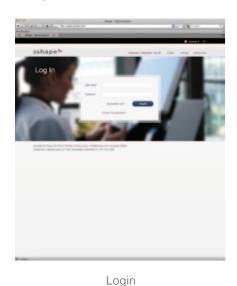
### A powerful communication tool

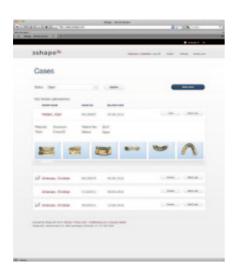
Upon completing a design, the techni- All 3D-visual and text communication services, enhance both dentist and pa- into the lab's order management base in the likelihood for errors and remakes.

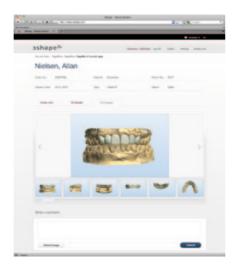
### Communicate when it's convenient

Communicate™ is an advanced commu-cian can send the dentist a 3D visualiza-about the case waits in the system so nication and visualization tool that lets tion and questions about the case with a users on both sides can view messages labs and dentist discuss a patient's case single click. At the clinic, a message no- when it's convenient, never again postwhile viewing the 3D model on-line. Ad- tification pops up signaling arrived input. poning ongoing tasks every time the ditionally, dentists can present compre- The dentist can login to view the design, phone rings. The Communicate™ user-inhensible before-and-after visualizations write comments, add annotations directly terface is intuitive and elegant, providing of restorations for their patients. With on the 3D image or approve the results. a superb user experience. Streamlined Communicate<sup>TM</sup>, labs can provide better The dentist's input is returned directly communication saves time and reduces

### 3Shape Communicate™ Dentist Interface

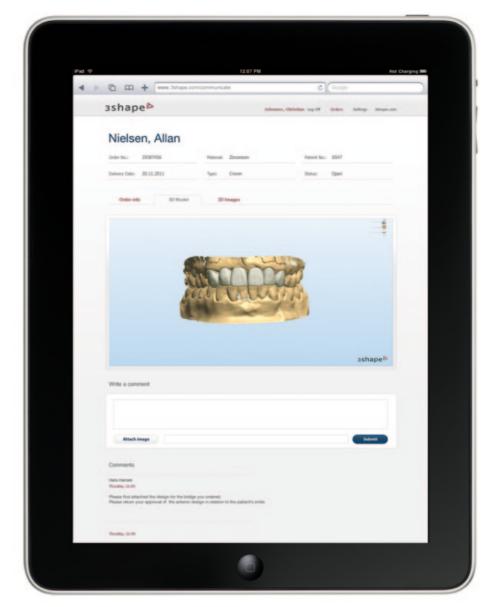






Case list Case view





Dentist 3D view

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## 3Shape 3D Dental Scanners Surpassing all norms for speed, precision and detail level

### A scanner solution for every lab

ners for 3D scanning of both impression and gypsum models. Whether you are seeking a secure entry into digital dentistry, or expanding your business model ner solution for you.

### Designed for productivity

range of technology-leading dental scan- D700 and D800 give labs increased impressions, deep inlays and full underproductivity plus customer satisfaction through faster delivery and superior clinical results. 3Shape's Dental Scanners are so easy to use that extra staff training is with the full range of dental indications hardly required. Object fixation is quick, and utmost accuracy - 3Shape has a scan- and a single click in the user-friendly software starts the scan.

### The market's most complete 3D scans

3Shape offers the market's most flexible 3Shape's Dental Scanners - series D500, 2 cameras with reduced angle enables cuts to be scanned effectively. The 3-axis motion system tilts, rotates and translates the object facilitating scanning from any viewpoint - more than 350 degrees



### 3Shape D500

3Shape's D500 series scanner is designed for small to medium-sized labs looking for an easy entry into CAD/CAM digital dentistry.

These compact scanners are built on Shape's leading scanning technologies with a reduced range of dental indications to provide a cost-efficient CAD/CAM solution for any laboratory size and budget.



### 3Shape D700 series scanners

3Shape's D700 series scanners are for medium to large labs where productivity and flexibility are the key criteria.

The D700 scanner series is 3Shape's user-acclaimed success, servicing thou- With its new and unique Texture Scansands of labs all over the world. The D700 is a workhorse of productivity, enabling high throughput for both standard and advanced indications. The D710 additionally supports Multi-Die scanning for ultimate efficiency.



### 3Shape D800 series scanners

3Shape's D800 series scanners are designed for medium to large labs that demand the utmost accuracy and detail levels for even the most advanced indications.

ning capabilities plus 5.0 MP cameras, 3Shape's D800 series scanners wield the market's most advanced 3D scanning technologies. This is a no limitations device, providing high productivity, extreme accuracy and the complete scope of dental indications for full-service labs that accept only the best.

- · Optimized scanning of gypsum models and impression models
- Dental System™ Standard Covers all basic dental indications
- Scan time:

Die: 50 sec (55 sec) 3 unit bridge: 160 sec (185 sec)

- 2 cameras, 1.3 Mega Pixel
- High Accuracy: 20 microns
- Upgradable to Dental System™ Premium for extending the range of available indications and widening your business scope

- Optimized scanning of gypsum models and impression models
- Dental System™ Premium Covers the full range of dental indications
- Fast Scan time:

Die: 25 sec (30 sec) 3 unit bridge: 100 sec (125 sec)

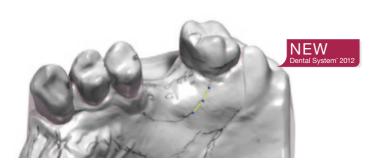
- 2 cameras, 1.3 Mega Pixel
- **High Accuracy:** 20 microns
- Multi-Die Scanning on the D710 for high productivity with single or multi-case processing

- Highly accurate scanning of gypsum models and impression models
- Dental System™ Premium Covers the full range of dental indications
- Fast Scan time:

Die: 25 sec (30 sec) 3 unit bridge: 100 sec (125 sec)

- 2 cameras, 5.0 Mega Pixel
- Ultra High Accuracy: 15 microns
- Multi-Die Scanning on the D810 for high productivity with single or multi-case processing
- Texture Scanning technology for high detail detection and capture of handdrawn design markings on the model

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### Capture complete textures and pencil markings

Utilizing its 5.0 Mega Pixel cameras, the high-end D800 scanner supports unique Texture Scanning capabilities. Texture Scanning captures 2D images of the model surface and precisely overlays these on the 3D model, enhancing visualization of surface details and allowing technicians to include hand-drawn design guidance markings in the digital design. Patent pending.



### Implant bridge and bar accuracy

3D scanning in connection with designing implant bridges and bars requires very high accuracy and 3Shape's D800 series scanners with improved performance are among the few that can deliver reliable data. The D800/D810 scanners are equipped with 5.0 Megapixel cameras which, in combination with high quality scan abutments, enable perfect 3D data capture of both implant positions and implant orientations to ensure a perfect tension-free fit.



### Market's most extensive suite of scan indications

All standard scan indications and in addition impression scanning, post & core, 16-unit bridges, articulated antagonist model, wax-up bridges for copy milling, deep inlays, pre-preparation model, un-sectioned model for temporaries, implant position and orientation detection, wax-up customized abutment and wax-up implant bridges for copy milling. The range of available indications depends on the Dental System<sup>™</sup> version – Standard/Premium.



### High productivity with Multi-Die scanning

Multi-Die scanning on the D710 and D810 scanners provide labs with ultra-efficient batch and multi-case processing. Dies for one or more cases are fixed to the Multi-Die plate, and scanning is automatic, freeing the technician to work with other tasks. Maximum accuracy is obtained by an obstacle free camera angle, ultra sharp focus, and optimal mechanical precision.

## Adaptive Impression Scanning Make temporary crowns without gypsum models

Omit traditional gypsum model fabrication and jumpstart the digital design process. 3Shape's Dental Scanners provide fast impression scanning at scan times below 2 minutes. Unique adaptive impression scanning technology ensures the market's most complete and accurate capture. Looking ahead, impression scanning is expected to become the most productive method for 3D scanning in the lab leaving "gypsum only" scanners obsolete. Patent pending.



### Unique Adaptive Impression scan technology

3Shape's patented adaptive scanning tech-2 cameras with reduced angle facilitate and cost savings. unique impression scanning capability. complete areas and automatically builds and antagonist scans into natural occlusion. without physical models.

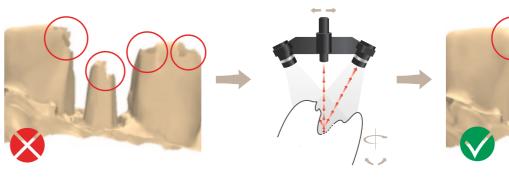
### Reducing turnaround times for the lab

Direct scanning of silicone and alginate Digital model-making directly from imimpressions represents a truly unique op- pression scans is surging forward as nology, combined with 3-axis motion and portunity for reducing turn-around time CAD/CAM advances provide new model-

Adaptive scanning intelligently detects in- Labs can start CAD design immediately and manufacture the model, coping/ adaptive scan sequences capturing full crown in parallel. When combined with ning in the near future making "gypsum object geometry. Sophisticated automatic 3Shape's Virtual Preparation & Gingiva, only" scanners a potentially insecure inalignment methods bring the preparation technicians can even create temporaries vestment.

### Gypsum models - soon relics of the past

making technologies at lower costs and with higher accuracies. Driven by these developments, impression scanning is likely to completely replace gypsum scan-



### Before Adaptive Scanning

The first scan result is incomplete in the preparation, proximal and contact areas, which will jeopardize fit and clinical performance.

### After Adaptive Scanning

A complete and accurate scan after adaptive scanning of incomplete areas automatically applying the optimal combination of 2 cameras and 3-axis motion.

### 3Shape TRIOS® NEW

## 3Shape's new intraoral digital impression solution cements lab-dentist relationships

3Shape's TRIOS® is a digital impression solution that enables dentists to capture the complete intraoral situation directly and send it as a highly accurate 3D digital model for expert design and manufacturing at the lab. TRIOS® provides flexible output that arrives directly in the lab's Dental System Inbox™. TRIOS® is a next generation digital impression approach, designed to strengthen the lab's market position and maintain complete profitability of their services.

### The market's leading intraoral scanner technology

3Shape has developed an intraoral scanner that is accurate, fast, and contains many ground-breaking features. Dentists can omit the taking of physical impressions and bypass related disadvantages such as inaccuracies, material costs, retakes and manual handling. Patient satisfaction soars - due to less chair time, reduced remakes, faster treatment completion, better fits and an overall improved chair-side experience.

### Improved productivity at the lab

Labs using Dental System™ can receive labs and their clients TRIOS® impression scans from the clinic directly into their Dental System Inbox™ and immediately start the design process without first creating a physical model.

Labs get accurate case input and achieve shorter turn-around times. The complete With Dental System™, labs can offer new case input arrives digitally, reducing logistics, manual handling and the need for picking up impressions. TRIOS® opens up whole new workflows such as parallel designing, virtual temps and digital lab model design.

## Strengthening relationships between

Digital impression taking systems are an emerging technology in dental clinics worldwide. TRIOS® is the market's most dedicated solution for optimized dentistlab communication and collaboration.

digital services that include receiving the dentist's TRIOS® scans directly and providing the full scope of dental indications. Advanced on-line communication features enable labs to return digital visualizations of designs for evaluation and approval.

"Impression taking is easier, faster and better with TRIOS. I get great services from the lab and make more profits by treating patients rather than spending time and money milling crowns in my clinic."

Dr. Jan Bjerg Andersen Just Smile Dental Clinic Denmark







"Because we can receive the open TRIOS scans directly, we now get a larger percentage of the dentist's work. By promoting TRIOS, we have avoided seeing our key dentists buying closed intra-oral solutions which we can't work with."

> Dorte Flügge Flügge Dental Lab Denmark

Dentist All Indications and technician expertise • Online Communication/Services • Increase patient satisfaction Save costs • Strengthen relationships • Expand business models Reduce turn-around time Immediate design availability

14 3Shape TRIOS® 3Shape TRIOS®

### Model Builder<sup>TM</sup> NEW Dental System 2012



## Manufacture your lab models locally - saving costs and time

3Shape's new Model Builder™ allows technicians to design lab models for an extensive range of indications including implant models, directly from intraoral scans, physical impression scans and gypsum scans. Now you can easily produce all lab models locally - either in-house or through your manufacturing center - completely bypassing slow and expensive manufacturing services bound to the scanner device.

### One solution for all

lab model solution for all of your clients and manufacturing methods. Labs can receive 3D input from a wide range of digital impres- mizes the scan, preparing it for direct tion and handling. Users can engrave sion taking solutions and produce optimized output for any of the market's working 3D printers or milling machines. A lab can invest in a single model-making machine to produce models for all its dentist-customers.

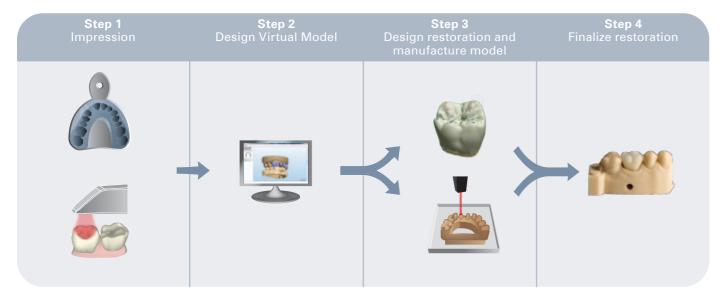
### From digital model to final crown

3Shape's Model Builder™ provides a single 3Shape Model Builder™ shortens the workflow and reduces turn-around time. The Model Builder™ cleans and opti- dies firmly in their shaft during articulautilization in the CAD design. The highly accurate digital lab model design can be manufactured in parallel with the CAD de-

### Optimized for user-friendly models

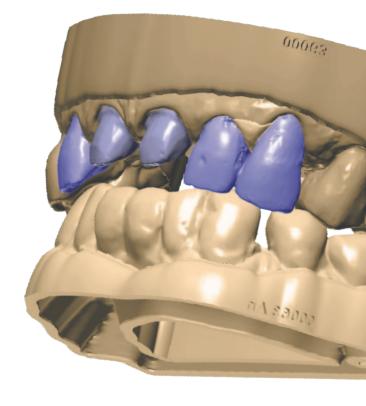
The software automatically adds extremely precise friction bars that hold the case data virtually on the model, such as the order number or the patient's name. Select the right articulator interface and sign steps and used when finalizing the add to the design so the model can be used with a physical articulator after manufacturing.

Enhance your business model with 3Shape Model Builder™



## Fast and intuitive workflow

Model Builder™ supports semi-automatic virtual sectioning and trimming for designing removable dies. The software detects and suggests margin lines and die insertion directions that can be fine adjusted by the user. Model Builder™ automatically builds a virtual model base and articulator base with articulation pins positioned for perfect occlusion. Patent pending.





### Precise implant models

Model Builder™ is the only CAD/CAM software that enables model design for implant cases. Based on integrated implant position detection, users can virtually add interfaces for implant analogs directly in the model design. Support for both integrated implant analogs and gluein implant analogs. Patent pending.



### Input from TRIOS® and 3rd party digital impression-taking solutions

3Shape's Dental System™ is known for its flexibility and problem-free integration with a wide range of dental equipment. Model Builder™ is open for input from both 3Shape's TRIOS® and many other making machines. Machine-specific pavalidated digital impression-taking solu- rameters are stored in editable and reustions and enables labs to bypass the dis- able profiles. advantages of scanner-dependent model-making services.



### Market's broadest manufacturing support

3Shape has worked closely with 3D printer and milling machine vendors to develop a Model Builder™ solution that delivers the specific model designs required for optimal manufacturing on given model

## Copings & Bridge Frameworks Productive and flexible inside-out modeling

Productivity is at the core of 3Shape Dental System™. Thanks to a number of automated positioning and modeling features, it takes less than 2 minutes from order creation to completed design of a single coping ready for manufacturing. This enables a large lab to create 100 units per day by a single technician.

### Boost lab productivity

All selected production parameters are preset for the material and equipment chosen at the time the order is created. The completed framework design is just a few mouse clicks away.

### Automation makes it easy

Dental System™ positions design elements automatically so framework design is really only about fine-tuning the system's suggestions.

### New optimized drill compensation

Coping Modeling

55 Sec

3Shape's new and optimized drill compensation feature ensures better fit at the preparation and reduces the occlusion space requirements while ensuring adequate material thickness of the restoration

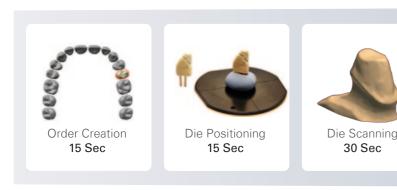
Texture - Bring your hand-drawn NEW Pental System: 2012

margin line into 3D

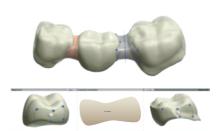
Dental System's™ D800/D810 scanners support unique Texture Scanning that will accurately capture a hand-drawn margin line that you penciled directly on the physical model. The software automatically detects and translates the handdrawn line into the 3D margin line for the coping. The margin line can be fine-adjusted for perfect positioning in just



### Total Time for a Coping: < 2 min.

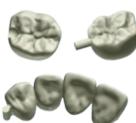


3Shape optimizes your complete workflow - less than 2 minutes (1 minute in parallel) is enough to create a standard coping from order creation to completed design.



### Advanced connector design

Intuitive tools enable technicians to create and edit connectors with optimized mechanical and esthetic properties. Users have full control of the connector's interface profile, curvature and thickness.



### Add any attachment

Advanced attachment functionality lets Dental System's sculpt toolkit gives users place any attachment e.g. slide atorientation can be adjusted interactively.



### Extensive sculpt toolkit

technicians maximum design flexibiltachments, ball attachments, wax pins, ity with freeform and optional automatic holes and generic CAD files. One or more tools including: the user-acclaimed virtual attachments can be added to or subtract- wax knife, freeform morphing of any part ed from any restoration. The position and of the surface, transformations for global repositioning, automatic smoothing, automatic minimum material enforcement and automatic high esthetic cut to antagonist or gingiva.

18 Copings & Bridge Frameworks Copings & Bridge Frameworks 19

## Smile Composer™ - Full Anatomical Design Optimize productivity, strength and esthetics with a few clicks

Dental System™ offers the most advanced and efficient tools for full anatomical crowns and bridges modeling. Extensive indications and 3Shape's unique Smile Composer™ provide userfriendly and productive tools for creating highly esthetic and functional restorations based on full anatomies.

### Full anatomical crowns

Full anatomical crowns are automatically morphed to precisely fit the clinical situation. Full anatomical crowns can for example be milled in full Zirconia or glass ceramics, or be used as temporary restorations.

3Shape knows that every tooth is special. Users can create customized morpholo- Produce sophisticated cutback crowns gies by scanning their favorites from wax from the various morphology libraries.

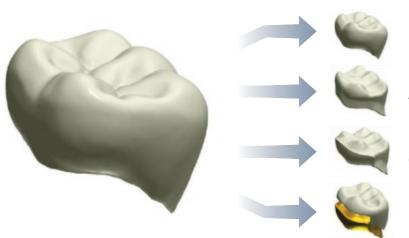
### Anatomical correct copings and cutback crowns

Anatomical correct copings are reduced from the full anatomical crown, creating anatomical copings and frameworks with excellent ceramic support and restoration

and lingual bands following the anatomifor direct use in designs, or they can select cal shape, and anatomical copings on the remaining crown for superior ceramics support.

### Multilayer crowns

Achieve easy design of multilayer crowns, such as porcelain pressed-to-metal and all-ceramic restorations. Design your coping and crown and split the file into two outputs - one for the anatomically correct coping and the other for the pressed waxpattern.



Full Crown

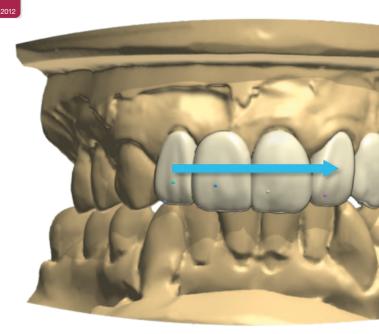
Anatomically correct coping

Cutback crown and lingual band

Multilaver crown

## Design esthetic full NEW Dental System 2012 anatomy bridges at unmatched speeds

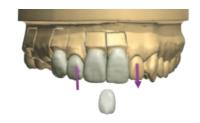
With Smile Composer™ technicians can easily design highly esthetic full anatomy bridges by working with full smiles. A unique and productive workflow enables morphing of whole tooth-sets as a single unit, thus continuously maintaining the unique smile structure and relationships between teeth. Utilize full-smile set-of-teeth templates, insert single teeth from libraries or scans, and make your own smile templates. Patent pending.





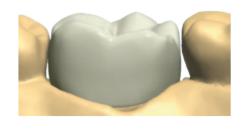
### Simultaneous Upper & Lower modeling

Dental System™ supports clinical cases requiring both maxillary and mandibular restorative work. In one integrated session, technicians can create, scan and design orders that engage preparations in both jaws - all fully aligned in occlusion. A single mouse click activates restorative elements for modification as the technician controls, adjusts and designs according to the opposing dentition.



### Mirroring from existing tooth or CAD design

Virtual Mirroring of CAD-designed and existing teeth enables users to rapidly achieve perfect symmetry and esthetics. The technician simply selects the tooth he wishes to reproduce on the other side of the mouth. A single click creates and accurately positions a perfect "mirrored" match in the design. Users can "cut-out" existing teeth from their scan and select them for mirroring. Patent pending.



### Automatic crowns and Cut-to-Neighbor

Dental System's™ powerful sculpt tool includes Cut-to-Antagonist and Cut-to-Neighbor functionality enabling singleclick adaptation to proximal and antagonist teeth. This unique and powerful feature makes it easy and fast to achieve perfect inter-proximal and occlusal contact in your designs.

20 Smile Composer™ - Full anatomical Design Smile Composer<sup>™</sup> - Full anatomical Design 21

## Multilayer Design NEW Dental System 2012

# Productive pressed and glass ceramics crowns and bridges

The new Dental System™ Multilayer functionality enables highly productive bridge design for pressing or combinations of milled glass-ceramics and Zirconia. 3Shape's Multilayer technology automatically splits full anatomy designs into two true and entire parts, completely without undercuts or lost areas. 3Shape's solution ensures a perfect match when the manufactured layers are reunited, drastically reducing manual interaction and finishing.

### Multilayer bridge design

tive and seamless workflows for designing both the overlying and substructures bridges. Two separate files are automati- torations created by combining glass for over-pressed or glass ceramic crowns and bridges. In combination with Smile Composer™ technicians can rapidly cre-tomical wax pattern - both files ready to tween the overlying glass ceramics layer ate highly esthetic full anatomies.

### Pressed crowns and bridges

Dental System™ enables highly produc- 3Shapes Multilayer technology is highly 3Shape's Multilayer functionality enables optimized for pressing of crowns and high quality clinical results through rescally created for output - one for the substructure and one for the overlying anabe transfered to their respective manufacturing equipment.

### Glass Ceramics with high clinical quality

ceramics and Zirconia. The software creates the strongest possible support beand Zirconia substructure while ensuring optimal material thickness







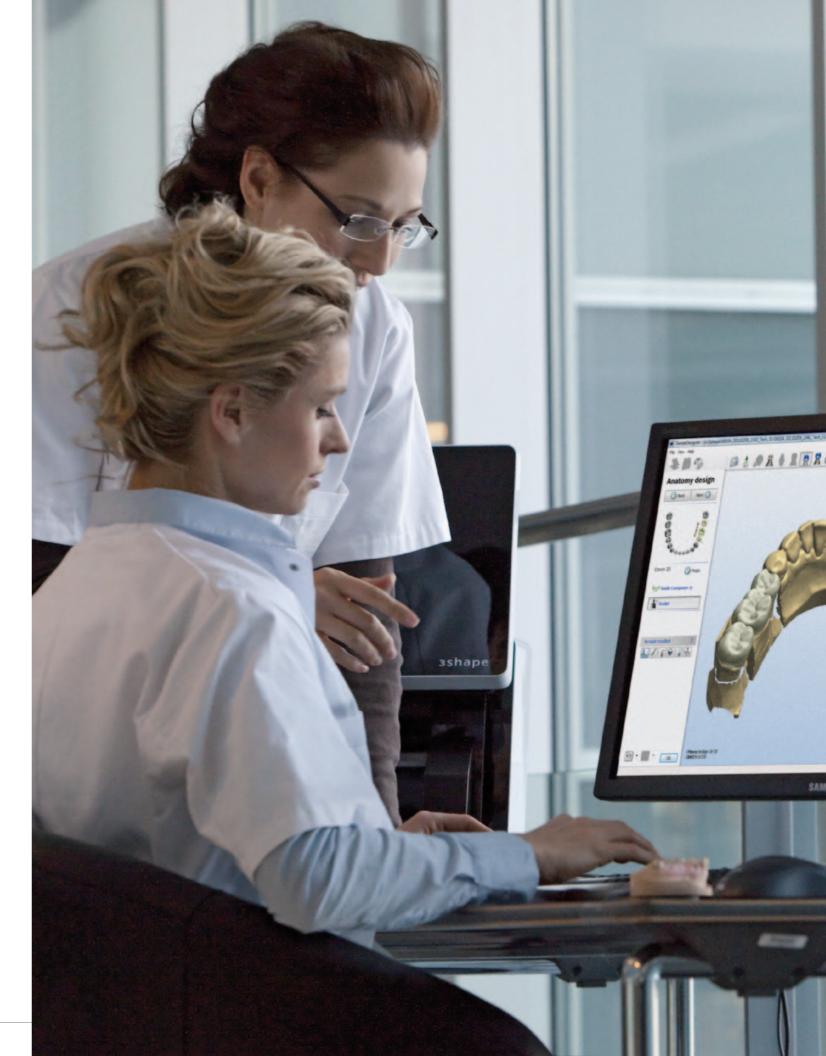








Glass ceramic



## Temporaries and Diagnostic Wax-Ups NEW Dental System 2012

## Complete digital workflow from virtual preparation to final crown

Powerful new features come together to form a revolutionary workflow solution for producing temporary crowns and diagnostic wax-ups - including Virtual Preparation, Virtual Gingiva, CAD Temporaries, Virtual Diagnostic Wax-up design and a unique Align & Reuse technology that utilizes the initial designs to produce the final crown in record time. Patent pending.

### Efficient Temporaries design software

Labs can now prepare teeth and design temporaries in an all-digital workflow omitting the need for a physical model. Starting with an impression, intraoral or optional gypsum scan, technicians can apply automatic tooth segmentation followed by Virtual Preparation & Gingiva using accurate neers in a completely model-free design. tools that also allow subgingival preparations for superior clinical results.

Building on the virtually prepared tooth, age Overlay tool and Communicate™, technicians can easily design a perfectly fitting temporary using Smile Composer™, free-form sculpt toolkit and more.

### Virtual Diagnostic Wax-ups for dentist and patient previews

Based on Virtual Preparation & Gingiva, technicians can easily CAD-design highly esthetic Virtual Diagnostic Wax-ups for accurate design previews. Use Smile Composer™ to include both crowns and ve-

The Virtual Diagnostic Wax-ups can be sent to the dentist on-line. With 2D-Imlabs can send before-and-after visualizations of the design and resulting smile for easy and provides high quality because previewing and approval at the clinic.

### An instant crown from the Virtual Diagnostic Wax-up

Using 3Shape's Align & Reuse technology, designs for the CAD Temporary or Virtual Diagnostic Wax-up are instantly available to be reused directly for the final crown. The scan of the physical preparation is accurately aligned with the existing CAD Temporary design or Virtual Diagnostic Wax-up to create a perfectly fitting final crown in record time.

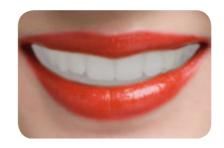
This revolutionary digital workflow is fast, final results are actually based on existing designs tested or viewed by the patient.

# Step 1: Impression taking Step 2: Virtual Preparation Step 3: Design and manufac-Step 4: Prepare tooth, take Step 6: Seat final crown

## 2D-Image Overlays NEW Dental System 2012 Making CAD-Designs Smile

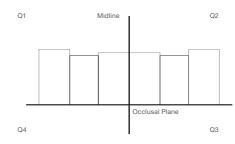
3Shape's new 2D-Image Overlay tool enables labs to superimpose a patient's actual face and smile images in the design process and utilize both directly to produce optimally esthetic and personalized restorations. When combined with 3Shape Communicate<sup>™</sup>, labs can show the dentist's patients exactly how a new restoration will transform their smiles and get immediate feedback. The smile visualization is highly realizable because it is solidly backed by the manufacturable 3D model and not just 2D image manipulations. Patent pending.





### Personalized designs with patientspecific 2D-Image Overlays

Import 2D images of the patient's lips, teeth and smile to design restorations that exactly suit the patient's personal look. Apply image manipulation tools to mask away the teeth, and alignment tools to bring lips and new teeth design together as your perfect personalized design guide.



### High esthetics with generic 2D-Image Overlays

braries that help you achieve astounding esthetics, even without pictures of the actual patient's smile. Select from a variety of smile-guides and design-templates to recreate complete smile compositions to apply with your restoration design.



#### Before-and-after visualization

By continuously interchanging between Dental System™ supports 2D-image li-situation views through gradual fading in-and-out, technicians, dentists and patients are easily able to detect even the smallest alterations and smile details for optimal comparisons.

24 Temporaries and Diagnostic Wax-Ups 2D-Image Overlays 25

## Dynamic Virtual Articulation NEW Dental System: 2012



## Superior function and fit with true articulator motions

Creating a crown or a bridge without the guidance of dynamic articulation and articulating paper would be improbable to most dental technicians. 3Shape's Dental System™ recognizes the relentless pursuit of the perfect occlusal fit, and takes articulation to whole new levels with its new generation Dynamic Virtual Articulator. A high degree of automation and unsurpassed precision save valuable time and minimize the need for manual finishing.

3Shape's Dynamic Virtual Articulator provides a fast and precise way to carry out a traditionally manual task. Based on familiar methods, this tool truly links the virtual world with its equivalent physical workflow.

3Shape's Dynamic Virtual Articulator software can both automatically and manually perform all classical jaw movements including Protrusion, Retrusion, Laterotrusion, Mediotrusion and Immediate Side Shift, providing complete articulation in a single digital-only workflow.

Technicians can work virtually with a generic articulator or with the specific articulator model in their lab. Dental System™ supports the market's widely recognized articulators, providing an optimal user-experience and ensuring that the software settings remain compatible when executing final quality control of the physical restoration.

Extended automation and superior occlusal fit enable dental technicians to significantly reduce, or even avoid, the time needed to finish and correct a manufactured crown manually.

## Feels just like your own physical articulator

The digital model is automatically loaded into the Dynamic Virtual Articulator with the default system-calculated occlusal plan already in place and ready to be fine-adjusted if needed. Perform jaw movements either manually or let the system play them all automatically as you watch. Apply virtual articulating paper to see the occlusion colored contact points. Additional sophisticated articulation tools include support for Intraoral Occlusal Design. Patent pending.



SAM® 2P



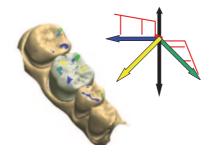




KaVo PROTAR®evo

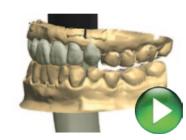


Whip Mix Denar® Mark 330



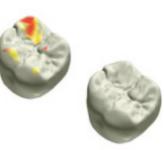
### **Occlusion Compass**

Dental System™ introduces its new Virtual Articulation Paper with a unique Occlusion Compass that gives occlusion paper usability a whole new meaning. With occlusion Compass functionality, the color of contact points are mapped to specific occlusion movements



### Intelligent auto-play jaw motion

Create and play predefined motion scripts that automatically run through Protrusion, Retrusion, Laterotrusion, click. As it runs through the different mo-Mediotrusion and Immediate Side Shift. Technicians can define their motion sequences in customized scripts if including all contact points and their depths they need to repress or repeat one or in all jaw movements. The system utilizes more motions for specific cases.



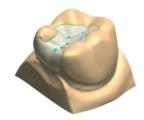
### Automatic adapt occlusion

The unique Adapt Occlusion feature enables users to set occlusion with a single tions, the Dynamic Virtual Articulator software records the complete occlusal story the movement data to automatically calculate and adapt occlusion, enabling technicians to easily achieve superior occlusal fit in record time.

26 Dynamic Virtual Articulation Dynamic Virtual Articulation 27

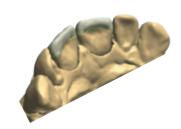
## Inlay, Onlay & Veneers As simple as designing a coping

3Shape's Dental System™ supports highly productive design of inlays, onlays and veneers. Automatic anatomy morphing and integrated design workflows with 3Shape's Smile Composer™ ensure both superb esthetics and high-strength results. Inlays, onlays and veneers are important indications and 3Shape's solution will enable labs to broaden their services and significantly increase returns on their CAD/CAM investment.



### Inlays and Onlays NEW Dental System 20

gin line protection ensures restoration optimizes for a perfect fit. Technicians sculpt toolkit.



Dental System™ intelligently suggests in- Technician's can utilize the full power of Dental System's flexible and productive sertion directions, margin lines, undercut Dental System™ for designing highly esremoval, anatomical shape, and matching thetic and correctly offset veneers based be applied for creating multi-unit as well to proximal/antagonist surfaces. Mar- on the full smile. Combining Smile Com- as single-unit designs. Easily generate poser™ with Dental System's™ automatstrength while new drill compensation ic and freeform morphing technologies plying Veneer designs using Smile Comprovides unsurpassed design flexibility. can fine-tune the automatic design pro- Dental System's™ Veneer designs are bining multiple Inlay designs in a single posals using Dental System's™ extensive optimized for efficient manufacturing us-restoration. ing the market's most esthetic materials such as those used with pressing or glass ceramics.



### Inlay & Maryland Bridges

Inlay, Onlay, Veneer modeling tools can esthetic Maryland Bridges by directly apposer™. Design Inlay Bridges by com-





### Abutment Designer™

## Customized abutments - perfect esthetics made easy

3Shape's 3<sup>rd</sup> generation Abutment Designer™ offers extensive new functionality for faster and better customized abutment design, scan of wax-up abutments, and integrated design of abutments, copings/ frameworks and crowns. Abutment Designer™ supports an extensive range of implant systems while the list continues to grow.

Implants and abutments are a key factor in maintaining high profitability in many labs.

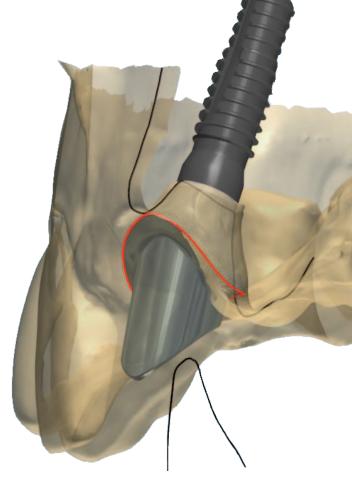
Abutment Designer's™ integrated design functionality enables simultaneous creation of customized abutments, copings/frameworks and crowns. This not only increases turnaround time and productivity by eliminating the time spent on waxing and casting, but it also enhances accuracy and esthetic results - providing higher profitability and dentist satisfaction.

Abutment Designer™ supports a vast number of different implant systems covering all major players. The actual implant system libraries used in Abutment Designer™ are provided by different suppliers and include both original implant manufacturers and "compatible-with" manufacturers.

The actual materials offered depend on the selected supplier. Abutment Designer™ can design single material abutments, or apply pre-manufactured CAD/CAM abutments for cementing together with a modeled customized piece.

## New 3<sup>rd</sup> generation NEW Dental System 2012 abutment design ultimate design power

3Shape's new Abutment Designer™ introduces Robotic Abutment design tools, providing technicians with better design control, including numerical fixed radius on edges, improved control of shoulder width and accurate drill compensation ensuring optimal fit of copings designed simultaneously with the abutment





### Outside-in abutment design

Design anatomically correct abutments with only a few clicks. Fit a draft model abutment, matching the crown's form. insertion direction for all simultaneously. Set margin to zero for producing singlepiece restorations such as screw retained crowns in materials such as E.max, Zirconia, composite and temporary materials.



### Parallel abutments feature

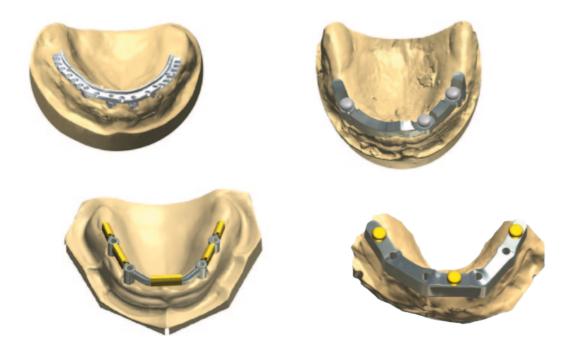
Define a common insertion direction for groups of customized abutments to of the crown to its neighbors leaving an ensure perfect angles for the secondthe system automatically designs the together for interactively changing the



Simultaneous prosthetic and NEW Dental System 20 surgical planning

Export scans and design files from Dental System™ into 3<sup>rd</sup> party implant planeven margin for the porcelain layer and ary structure. Virtually lock abutments ning software to get optimal clinical and esthetic implant planning. Import planned implant positions and CT-scan surfaces from implant planning into Dental System™ to design customized abutments, temporaries and potentially the final crown for direct loading.

30 Abutment Designer™ Add-on Module Add-on Module Abutment Designer™ 31



## Implant Bars and Bridges Unleashing creativity with precision, flexibility and esthetics

Get the market's most precise, productive and cost-saving tool for designing sophisticated implant bars and bridges for both removable and fixed prosthesis. 3Shape's solution supports standard and free-form bar shapes and enables virtual addition of attachments, locators and retention holes. Enjoy significant material savings while cutting production time by 60-70%.

Implant bars and bridges often involve complex geometric patterns and demanding accuracy requirements. 3Shape's dental scanners are renowned for their long-span bridge scanning capabilities, and superior results with such restorations.

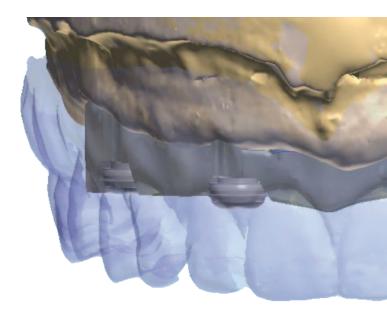
5.0 Megapixel cameras on the D800/D810 scanners and high quality scan abutments enable perfect 3D data capture of both implant positions and orientations to ensure a perfect passive fit of the produced bridge or bar when seated

Technicians can combine a scan of the acrylic denture with the bar design to visualize and measure on-screen for a perfect match between denture, bar and implants.

3Shape's Implant Bar and Bridge solution provides a completely digital linear workflow, bypassing numerous cumbersome, time-consuming and material-expensive steps to allow your lab's productivity and profitability to reach new heights.

## Flexible design shape the bar, add attachments and cut-to-gingiva

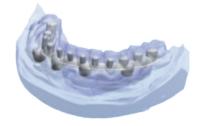
Use the intuitive tools to form and cut the bar for optimal fit to the denture, gingiva and implants. Measure space and distance. Shape implant connections as cylindrical extensions or freeform emergence profiles. Freely add slide attachments, ball attachments, locators and retention holes, and fine-adjust their position and angles. Technicians can import their own CAD library of attachments into the system.





### Fully digital implant bridges

Applying Smile Composer™ in combination with implants lets technicians easily model full anatomy and highly esthetic implant bridges. The Cut-back feature provides fast and accurate anatomical reduction of the implant bridge for veneering when designing either with Smile Composer™ or on scanned dentures.



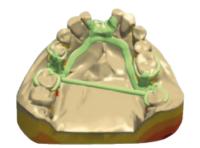
### Design accuracy for implant hybrids

Scan and utilize the try-in denture, including its gingiva to create the hybrid bar directly underneath the denture scan. Apply the powerful attachment tools to include retention structures for acrylic teeth. You the digitized model to achieve the optimal can place your pins with supreme accu- copy milling result. racy to achieve perfectly fitting implant hybrids.



### Create optimal designs for copy milling

Scan an original wax-up bridge or hybrid design for remodeling in a new material to create a digitized file that is perfect for copy milling. Apply fine adjustments to







## Removable Partial Design Design removable partials in less than 12 minutes

3Shape's groundbreaking Removable Partial Design is the ultimate tool for highly productive and reliable creation of removable partials, providing labs with accurate digital control over a technique-demanding process while reducing production time by 70-80%. Removable Partial Design enables fast and robust design of both metal and flexible frameworks.

3Shape's Removable Partial Design brings lab productivity and profitability to new heights. The fast and easy workflow saves time and frees design technician-time for other tasks. Digital design removes the need for 2nd re-factory modelmaking saving both time and money.

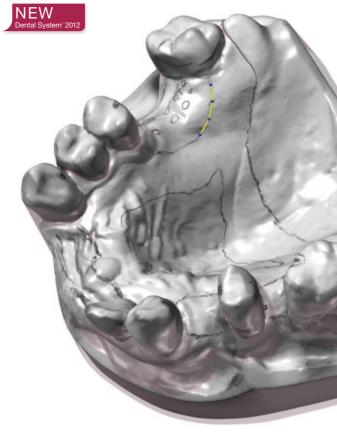
3Shape Dental scanners will capture a gypsum model or impression with the required accuracy in only 100 seconds. Include your hand-drawn markings with Texture Scanning on the D800/D810.

Fully exploit your technician expertise within a digital design process that intuitively mimics the familiar manual steps, including automatic blocking out of undercuts, retention grid design with automatic resin gap, major connector, and addition of clasps.

The system's high accuracy ensures results that matter to the dentist and patient, such as high esthetics, easy removability, proper chewing, and a perfect fit.

## Scan your pencil markings NEW Dental System 2012 on the model for semiautomatic design creation

Combine your artistic technician skills with the digital process and jumpstart the design workflow. Texture Scanning on the D800/D810 scanners enables technicians to capture their hand-drawn framework position markings made directly on the physical model. The software semi-automatically detects and translates the lines in 3D to jumpstart modeling of complete partial structure and clasps.





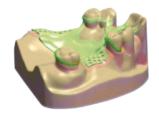
### Survey, block-out and expose undercuts

The completely digital survey accurately identifies undercuts according to 3 virtual gauges enabling users to plan clasps at optimal positions. Automatic virtual wax minute.



## Retention grid and major connector

Highly intuitive workflow aids for designing the retention grid. Select from the list of pre-defined grid patterns and apply the preview lets you fine-adjust each clasp block-out ensures easy denture insertion mesh to the digital model for a perfect re-through control points. Apply the powerand reliable retention - all in less than a tention. Efficiently mark the area for your ful attachment tool to add additional major connector using 3Shape's fast edit structures such as post-springs for retentool. A unique acrylic retention profile aution of acrylic teeth. tomatically appears at the border between major connector and retention grid.



### Optimal clasp design and attachment

Virtually draw your lines for clasp placement and apply predefined or customized clasps to the model. The interactive

34 Removable Partial Design Add-on Module Add-on Module Removable Partial Design 35

### Advanced Indications and Interfaces

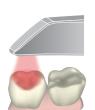
## Your access to emerging technologies and new indications

Through constant attention to technology innovation, flexible interfacing and workflow integration, the 3Shape Dental System™ provides the safest platform for your CAD/CAM investment. Flexibility and versatility are among the most important factors to consider when selecting a CAD/CAM system that can grow with your lab business.

## Simultaneous design of multiple indications

The unique flexibility of Dental System™ allows users to design all restorations in the same modeling session. For example, it is possible to simultaneously design a standard bridge, full anatomy crowns and an implant bridge. Simultaneous modeling of multiple indications empowers technicians with intuitive workflows that increase efficiency, enhance esthetics and improve clinical results.











### 3<sup>rd</sup> party digital impression scan import

key component in driving the future of core restorations, something which is im-scanning the original wax-up design. The digital dentistry. 3Shape's Dental Sys- possible on traditional gypsum scanners scan can be further modified using for tem™ supports the import of scans, due to the narrow core. Designing the example overall reduction, or by applying margin lines and order information from post & core restoration takes place using the sculpt toolkit to make the most of the intraoral scanners such as Sirona CEREC, the advanced 3Shape modeling function- CAD/CAM investment. Cadent iTero and 3M Lava Chairside Oral ality. Patent pending. Scanner. Imported scans can be used for restoration modeling without constrains on the manufacturing output.



### Post & core using impression scanning

3Shape's adaptive impression scanning Enables high accuracy copy milling of Digital impression taking has become a capabilities enable the scanning of post & complex and advanced wax designs by



### Copy milling of wax-up bridges



### Integrated primary and secondary telescope crown design

New Dental System™ software for optimized creation of telescopic crowns - now with both primary and secondary telescope modeling and improved edge design. Easy workflows let you base designs on pre-defined geometrical shapes, user-defined angle and common insertion direction. With Dental System's™ powerful attachment tool, any attachment can be added to the design. Patent pending.



### Applying pre-preparation model directly in the design

With Dental System™, technicians can segment teeth from pre-preparation use these directly as designs in the modeling process. This enables fast and efficient replication of existing dentition.



### Multiple workstations for ultimate productivity

Get the most out of your technician staff. Set up multiple workstations with Denscans and diagnostic wax-up scans, and tal System™ to flexibly match your lab's current and future tasks. Users can efficiently scan, design and create orders in parallel, sharing files with continuous data consistency.

36 Advanced Indications and Interfaces Advanced Indications and Interfaces 37

## Dental System Inbox NEW Dental System 2012



## Improved service and reduced handling costs

3Shape's Dental System Inbox™ offers a fully integrated order flow - from the dentist to the lab and from the lab to the manufacturer. Inbox™ is a powerful remote order management tool that automates and optimizes time-consuming order-administration processes and enables technicians to be more productive. Three free Inbox™ user-licenses are included with every Dental System™ Premium.

### Providing Order transparency for all parties

Inbox™ provides an easy-to-use interton, can safely transfer orders across netcan monitor the status of their orders in real time, and effectively communicate with the lab. Inbox<sup>TM</sup> is scalable for labs FTP enabled network.

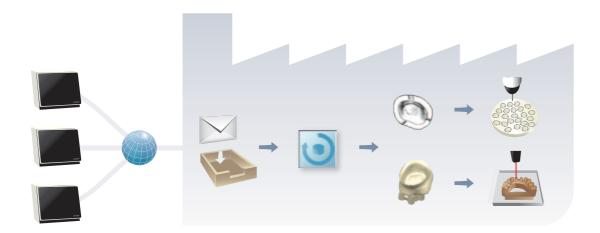
### A new service for your dentist-clients

Your dentist-clients can send their orders and digital impressions directly into your works to and from the lab. Lab-partners ing. Incoming orders can then be processed when convenient and if needed, questions directly on-line. Inbox™ saves relationships with dentist-clients.

### Streamlined communication with manufacturers

The lab can send completed orders and face, where users, with the click of a but- Inbox™ making them immediately avail- 3D designs from Dental System's™ order able for starting design and manufactur- management directly to the manufacturer with a single click. Inbox<sup>TM</sup> automatically creates estimated shipping and delivthe lab can easily return feedback or ery dates based on the material ordered and the manufacturing process involved. of any size and is easy to set up on any loads of administrative hassles while pro- With 3Shape's CAMbridge™ included in viding an attractive service that tightens the workflow, labs can realize fully automated manufacturing.

Streamlined administration of orders on both sides – input from dentists and output to manufacturing



### CAMbridge™

Be more competitive with fully automated manufacturing

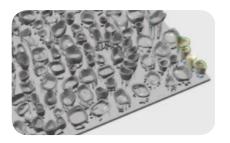
As orders are ready for manufacturing, CAMbridge™ automatically prepares the completed digital designs for the selected material and corresponding manufacturing equipment. CAMbridge™ is fully integrated with Dental System™, automatically exchanging complete order information and manufacturing progress. CAMbridge™ not only reduces manpower and skill requirements, but also improves material utilization and increases manufacturing capacity.





### Efficient CAM software with milling strategies

Get one of the market's fastest milling strategies, razor sharp margins and perfect fit that removes the need for manual finishing. Milling strategies are chining for selected 4 and 5 axes milling machines. The software can seamlessly auto detection of margin line and under- after printing. cut reduction.



### Wax printers and model making machines

Automatic preparation includes optimal placement, orientation, support generation, order management and communication with the machine. Adaptive grouping suppresses warping during the sintering for 3.5-axis machining and 3+1, 3+2 ma- enables automatic clustering of cases and process, yet is still easy to remove. Adapor clinics. Use configuration rules to au-sintering transfer files and control the machine and tomatically group items on the build platcalculate milling strategies for a full blank form with optional printed boundaries for in 150 seconds. CAMbridge™ contains easy identification. ID tags can be placed high-end support for STL files, including next to each item to minimize processing



### Automated preparation for Laser sintering machines

Includes optimal placement, unique support generation and ID tags for easy identification. The unique support structure groups can be defined based on names tive grouping is also provided for laser

38 Dental System Inbox<sup>TM</sup> Add-on Module Add-on Module CAMbridge™ 39





Before

After

## Ortho System MEW Dental System 2012

## Extend the digital workflow to your orthodontic department

Leverage your 3Shape Dental System™ investment with the Ortho System Add-On Module™. Expand your business by offering full digital services including the creation of digital Study Models, 3D treatment planning, and manufacturing of appliances using digital input.

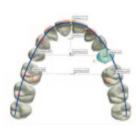
Prepare your lab for the future of orthodontics while cementing customer relations. Enjoy immediate cost reductions in manufacturing, shipment and archiving. Provide efficient communications that give your customers instant insight into their patient's case.



### Offer a new Digital Study Model service to your orthodontists

or gypsum models and wield 3Shape's Orthodontic solution to easily create digital Study Models with the virtual base of different treatment alternatives. your choice.

age space plus handling. Make the digital setups and export treatment plans that the market's widest range of manufactur-Study Model, treatment plan and appliance-options available for your orthodon- Includes accurate comparison of before- request physical Study Models, these tist using 3Shape Communicate™ or via email with a dedicated 3D viewer. Discuss treatment and appliances options online with your customers as you both view the 3D model.



### Powerful 3D treatment planning tools in OrthoAnalyzer™

cians or orthodontists can create optimal treatment plans, showing and comparing

Omit the physical model and save stor- the dentition accurately, perform virtual summarize detailed teeth movements.



### 3D-based manufacturing

Digital Study Models and 3D treatment Scan silicone or alginate impressions, Using the digital Study Model, techni- plans can be used directly to create orthodontic appliances using powerful 3D modeling tools and rapid prototyping technology.

> High performance tools help to segment The open output format guarantees smooth interfacing and compatibility with ing equipment. Should your customers can be quickly and convinientlly created on Rapid Prototyping machines.

40 Ortho System™ Add-on Module 3Shape has firmly established its position as the leading industry pacesetter for breakthrough developments in 3D scanners and CAD/CAM technologies. More than 200 employees and over 100 developers work daily to bring 3Shape's innovative solutions to dental labs worldwide. 3Shape is a global company and its offices span the world with presence in Western Europe, Eastern Europe, Asia and the Americas.

www.3shape.com

Technology designed the way you work

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