3shape△

3Shape Dental System™

CAD/CAM system for professionals

Technology designed the way you work
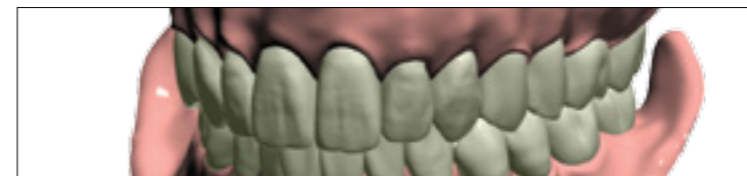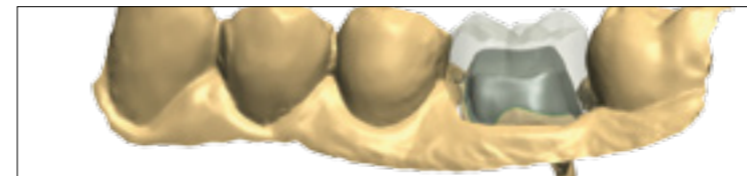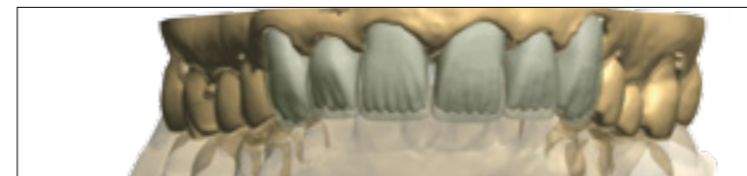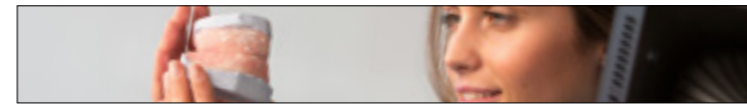
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The professional CAD/CAM system for dental labs

Many call it "the most powerful CAD/CAM solution in the world". Others prefer to speak of its efficient workflows, many tools, ease of use, and complete range of indications. No matter how you describe it, 3Shape's Dental System™ continues to maintain its long-standing leadership as the world's most innovative and sold lab system for Dental CAD/CAM.

3Shape's Dental System™ 2014 brings labs new opportunities for expanding their business, increasing their productivity and growing their customer base.

Dental System™ provides 3D scanning, CAD modeling, order management, intraoral scanning, dentist-lab communication, and it interfaces to essentially all manufacturing equipment and materials.

Dental System™ offers solutions for labs of any size and business model. The included 3Shape LABcare™ package gives users unlimited upgrades, plus access to online support, and expert training.

This is why Dental System™ is much more than scanners and software. It is a comprehensive solution for professionals – one that strengthens all aspects of lab business while providing a safe journey into a future of global digitization.

New in Dental System™ 2014

D900

Color scanning

Customized TI Bases

RealView Engine™

Mamelon Structures

Digital Dentures

3Shape Communicate™ App

Implant Planning and Drill Guides

Appliance Designer™

The full digital service lab

The dental lab industry is going digital faster than most have anticipated. CAD/CAM technology solves many pressing challenges by allowing labs to be more productive, offer more products, apply new materials, provide attractive services and grow their business.

// We see a future in which all restorations are handled digitally starting from the impression, through CAD design, to manufacturing - with hardly any manual finishing. Our mission is to help labs meet this future with solutions that allow them to compete and prosper."

Tais Clausen,
CTO and Co-Founder
3Shape

// The evolution from analogue to digital dentistry is no longer a futuristic vision, but a reality that is changing the way dentists and technicians communicate and work together."

Lee Culp,
CDT/CTO, DTI Dental
Technologies Inc.

// Digitization of dentistry is happening now and the change is dramatic. Labs must go digital or they will risk losing customers."

Jim Boshoven,
CDT Director, Automated Technology
Dental Services Group

The most intuitive workflow ever

Dental System's™ user interface has been completely revitalized to provide a supreme user experience and intuitive operation for both new and experienced users.

The 3Shape system is very simple to operate, extremely fast when scanning and designing, and highly intuitive. The user is guided through the design steps in a very logical and user-friendly way."

Jonathan L. Ferencz
DDS, FACP, Clinical Professor of Prosthodontics
New York University, College of Dentistry

Can thousands of labs be wrong?

Labs owners that are considering a move into digital dentistry need to make the right choice among systems – a choice that will add business value and expand their possibilities long term. 3Shape believes in providing solutions that help labs grow their business and stay ahead. Here's how …

Market leading innovation power and dental expertise
More than 140 full-time developers working in close cooperative liaison with dental technicians in the field.

User-acclaimed CAD design and more indications
Dental System™ offers the market's widest range of dental indications and the most advanced design tools.

Fully integrated dental scanners with proven technologies
3Shape's user-acclaimed scanners and CAD software are developed together to provide high speed, smooth workflows and unique tools.

Complete solutions and broadest integration
Solutions covering all aspects of digital dentistry from clinic to lab, and interfacing with virtually all manufacturing equipment and materials.

Providing long-term solutions with LABcare™
Unlimited upgrading, new functionality, added libraries, and beneficial interfaces are integral parts of your Dental System™ subscription.

Backing users with care, technology and expertise
LABcare™ gives users access to 3Shape's worldwide network of authorized support experts and many learning channels.
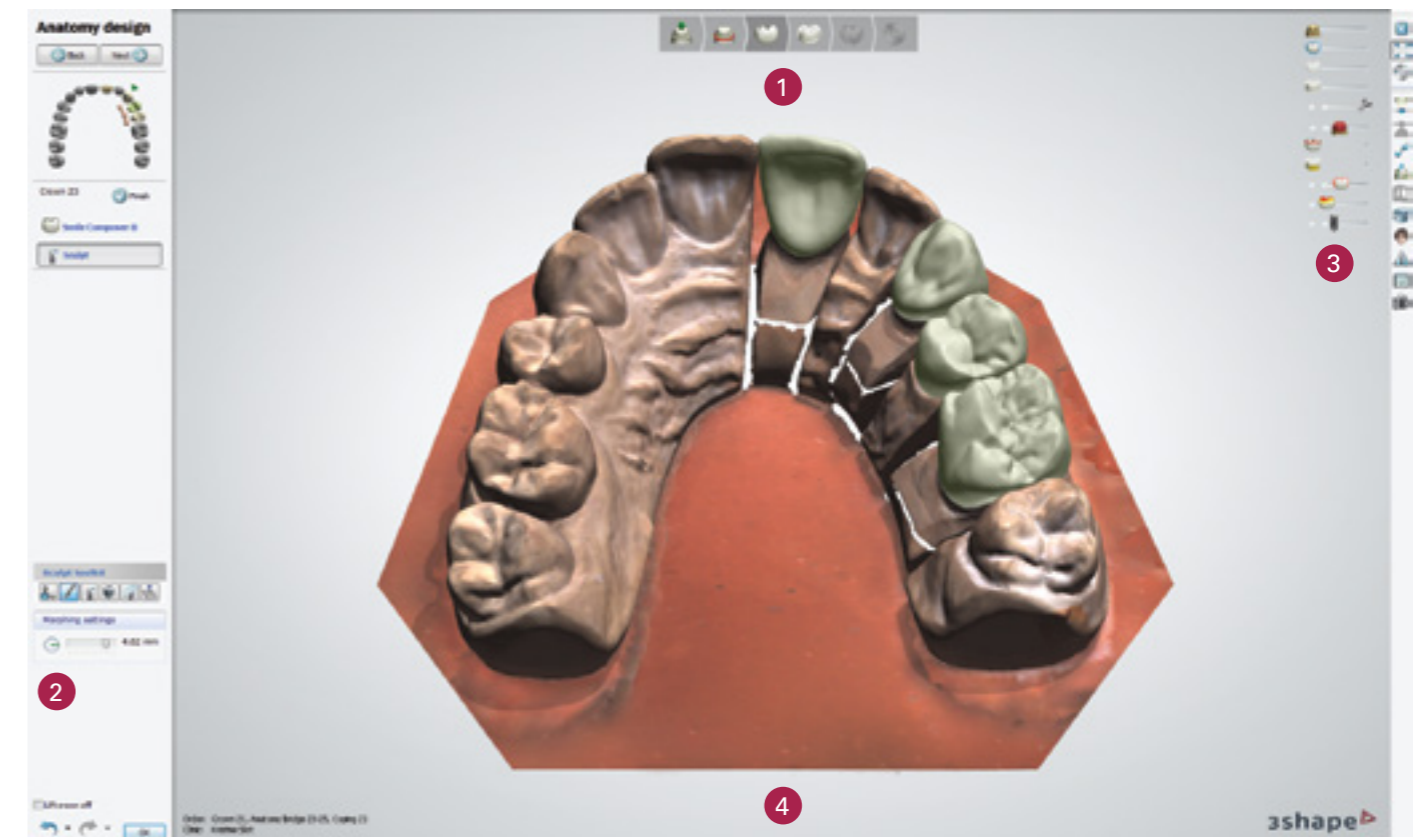
1. Workflow bar
Easily guides users through all design steps.

2. Design tools
Immediate access to powerful design tools.

3. Visualization sliders
Turn 3D elements on/off for ideal viewing as you design.

4. Full screen design window
Optimized for maximum 3D design workspace.

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. 3Shape LABcare™ backs up lab business with expert training, unlimited upgrades, and access to online support.

// The 3Shape Dental System™, with its 3D Scanners and design software, is unquestionably the most advanced and user friendly system to CAD dentistry today.

Kenneth A. Malament
DDS, MScD, FACP
Past President of American Board of Prosthodontics
Clinical Professor, Tufts University School of Dental Medicine

A scanner for any lab
Model scanning, impression scanning multi-die scanning, color texture scanning and 5 MP for bar accuracy.

Manage orders
Systemize case and production information, search, archive, and share.
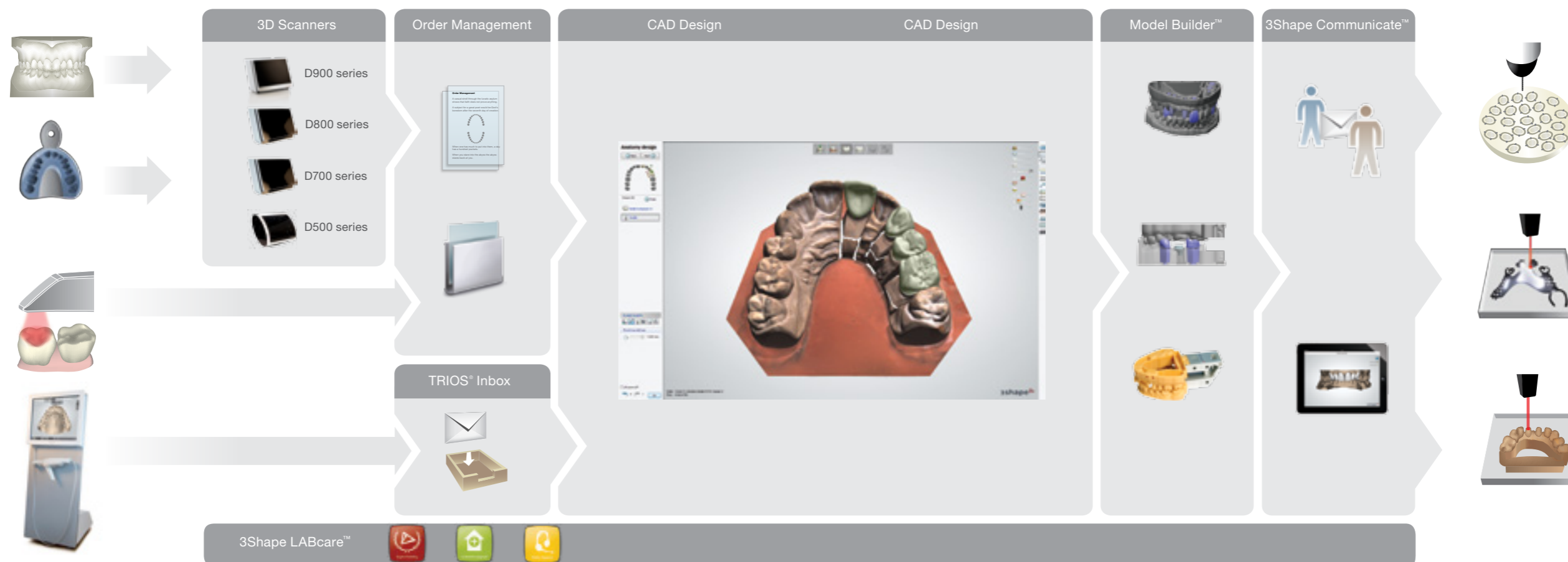
Boost Crown & Bridge productivity
• Copings
• Bridge framework
• Full anatomy crowns & bridges
• Inlay/Onlay/Veneers

Advanced indications and new services
• Multilayer bridges
• Post & Core
• Telescopic Crowns
• Digital Temporaries
• Virtual Diagnostic Wax-ups
• Customized Abutments
• Implant Bars and Bridges
• Denture Design™
• Implant Planning & Drill Guides
• Removable Partial Design
• Orthodontic appliances

Communicate when convenient
Share 3D designs and discuss cases on-line with dentists.

3D Scanners — D900 series, D800 series, D700 series, D500 series
Order Management
TRIOS® Inbox
CAD Design   CAD Design
Model Builder™
3Shape Communicate™
3Shape LABcare™

Connect to TRIOS® scanners
Receive TRIOS® scans directly into Dental System™ and expand your client base.

3Shape LABcare™
Expert training, unlimited upgrades, and online support.

Extensive ToolBox
• Smile Composer™
• Simultaneous Upper/Lower
• Mirror and copy teeth
• Dynamic Virtual Articulators

Extensive ToolBox
• Parametric attachments
• Advanced connector design
• Extensive Sculpt tool kit
• Color Texture Scanning
• RealView™ Engine

Manufacture models locally
Design lab models for an extensive range of indications for 3D printing, including implant models.

Windows 8 compatible

64-bit application
(coming in Dental System™ 2014)
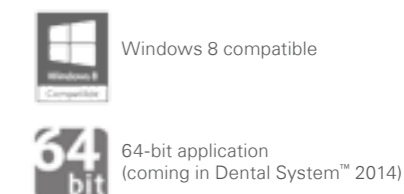
3Shape solutions for any lab

Whether you are seeking a secure entry into digital dentistry, or expanding your business with more indications, 3Shape has a scanner and software combination for you. 3Shape's solutions are modular, upgradable, and come in various packages to ensure easy matching to your current needs with room for future growth.

Flexible, modular, upgradable software packages

Dental System™ covers every business need through 3 software packages, upgrade options, and Add-On expansions. 3shape LABcare™ comes with every software subscription – providing services that ensure your success.

Extend your range of indications with Add-on modules

3Shape offers a wide range of Add-ons covering advanced indications and workflows. With Add-ons, labs can let their CAD/CAM solution grow with their business by flexibly expanding the range of their services and opening new opportunities.

Easily expand your business with CAD points

CAD Points is a getting-started package for labs seeking to offer a wider range of indications with a minimal up-front investment. Get Pay-Per-Design access to add-ons such as Customized Abutments, Implant Bars & Bridges, and Removable Partials.

Our three software packages

Dental System™ Full Contour

A light version of Dental System™ containing indications and tools for labs which primarily focus on fully digital crowns.

- Full crowns, bridges, and more
- Advanced sculpt toolbox and virtual articulation
- Upgradable to Dental System™ Standard
- Includes Communicate™, TRIOS inbox™ and more

Dental System™ Standard

A cost-efficient solution with the basic indications needed in professional labs of any size or budget seeking an easy entry into CAD/CAM.

- All the basic indications and tools
- Advanced sculpt toolbox and virtual articulation
- Upgradable to Dental System™ Premium
- Includes Communicate™, TRIOS inbox™ and more

Dental System™ Premium

The complete CAD/CAM dental lab solution package containing the widest range of indications, advanced design tools, and service options.

- Full range of indications and tools
- Complete range of advanced tools
- Also Real View™ Engine with 2D image overlay
- Includes Communicate™, TRIOS inbox™ and more

Backing users with care, technology, and expertise

LABcare™ is an integral part of Dental System™ and your annual subscription. It bundles services that are designed to safeguard your investment, secure maximum uptime, and help you get the most from your solution year after year. We don't just deliver a system and then leave you on your own. We believe in making commitments and LABcare™ is one of the ways we fulfill them.

// 3Shape's LABcare™ package ensures that both my technicians and my system are always up-to-date."

Paco Mazo
Lab Owner
Paco Mazo Dental S L, Spain

Expert Training

All Dental System™ users have access to training and learning channels such as local hands-on training, open training events, online webinars, instruction videos and manuals. We want users to become familiar with all their system's features and workflows, and get the most out of their investment.

Unlimited Upgrades

LABcare™ ensures that your system represents a future-safe investment that grows stronger and more competitive. 3Shape releases one major system upgrade every year, packed with new indications and workflows plus supplemental upgrading with extra features, more libraries, and new validated interfaces.

Online Support

LABcare™ ensures rapid assistance in your local language and time-zone. Primary local 1st line support is provided by certified 3Shape representatives. We provide access to a multi-language 2nd line support force of more than 30 in-house 3Shape experts for special cases. 3Shape's Support & Service centers are strategically placed all over the globe.
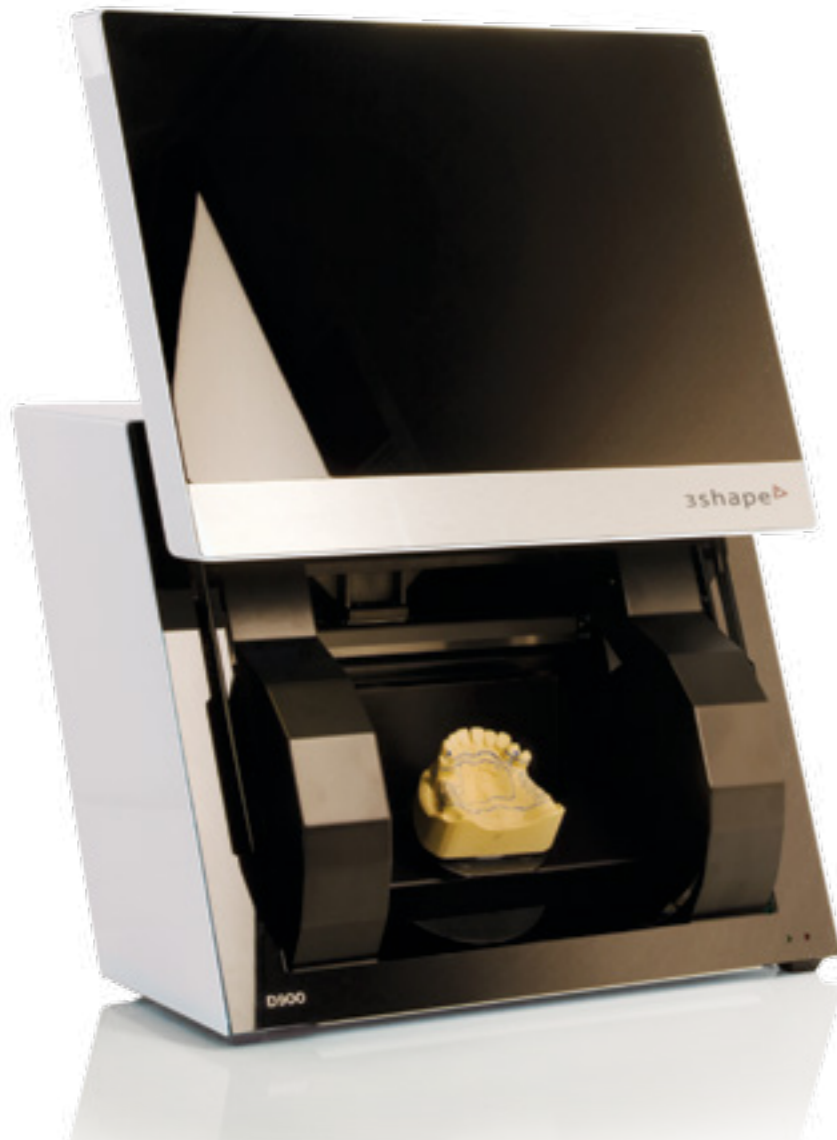
4 × 5.0 MP Cameras
RealColor™

2 × 5.0 MP

D900

Four high-res 5MP cameras and new blue LED technology provide extraordinary speed and highly accurate color scanning. Perfect for large high volume, productive-orientated labs.

D500 series
Building on 3Shape's proven scanning technologies, the D500 provides a cost-efficient solution and an easy entry into CAD/CAM for labs of any size and budget.

D700 series
3Shape's user-acclaimed success and a workhorse of productivity. The right choice for medium-sized labs where high throughput is the key criteria or larger labs expanding their scan-stations.

D800 series
Texture scanning and high-res 5MP cameras make the D800 scanners the right solution for medium to large labs that demand the utmost accuracy and detail levels for even advanced indications.

Proven technologies, successfully servicing thousands of labs all over the world

3Shape offers the market's most flexible range of technology-leading dental scanners for 3D scanning of both impression and gypsum models. All scanners are easy to use and fully integrated with 3Shape CAD software for optimal workflow efficiency and full indication support.

Every 3Shape scanner undergoes strict quality control and accuracy inspection before shipping, and our dedicated service-teams in 3Shape centers worldwide are committed to servicing your scanner many years forward.

	D500 series	D700 series	D800 series	D900 series
Scanner models	D500	D700, D710	D800, D810	D900
Cameras	2 cameras 1.3 Mega Pixel	2 cameras 1.3 Mega Pixel	2 cameras 5.0 Mega Pixel	4 cameras 5.0 Mega Pixel
Light technology	Red laser	Red laser	Red laser	Blue LED
Accuracy*	20 microns	20 microns	15 microns	15 microns
Gypsum model scanning	√	√	√	√
Impression scanning	√ (add on)	√ (add on)	√ (add on)	√ (add on)
Multi-die scanning		√ (710 models)	√ (810 models)	√ (new technology)
Texture scanning			Standard Texture	Color Texture
Scan time - single die	50 Sec (55 sec)	25 Sec (30 sec)	25 Sec (30 sec)	15 sec (19 sec)
Scan time - 3 unit bridge	160 Sec (185 sec)	100 Sec (125 sec)	100 Sec (125 sec)	65 sec (85 sec)
Typical Software package**	Dental System™ Standard/ Dental System™ Full Contour	Dental System™ Premium	Dental System™ Premium	Dental System™ Premium

* Measured using metrology gauge block
** Availability of specific configurations depends on country and reseller
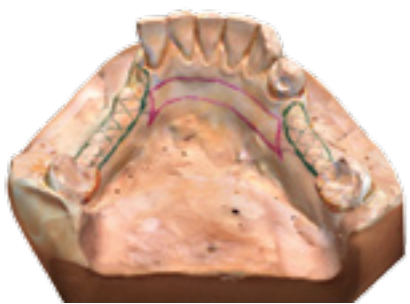
RealColor™ Technology captures all textures and colors
Texture scanning captures 2D images of the model surface and precisely overlays these on the 3D model, enhancing visualization of surface details and allowing technicians to include hand-drawn design guidance markings in the digital design. RealColor™ Technology on the D900 allows technicians to capture colored markings, indicating different design details. *Pantent Pending.*

Implant bridge and bar accuracy
Every day labs all over the world are using 3Shape's high-end scanners to produce implant bars and bridges of an exceptional quality that few others can deliver. 5.0 Megapixel cameras, in combination with high quality scan abutments, enable accurate 3D capture of both implant positions and orientations ensuring excellent passive fit.

Impression scanners
- a future secure investment

Looking ahead, impression scanning is expected to become the standard method for 3D scanning in the lab, leaving "gypsum only" scanners obsolete. All 3Shape's dental scanners support Adaptive Impression Scanning – offering labs accurate impression capture and a future secure scanner investment. *Patented technology.*
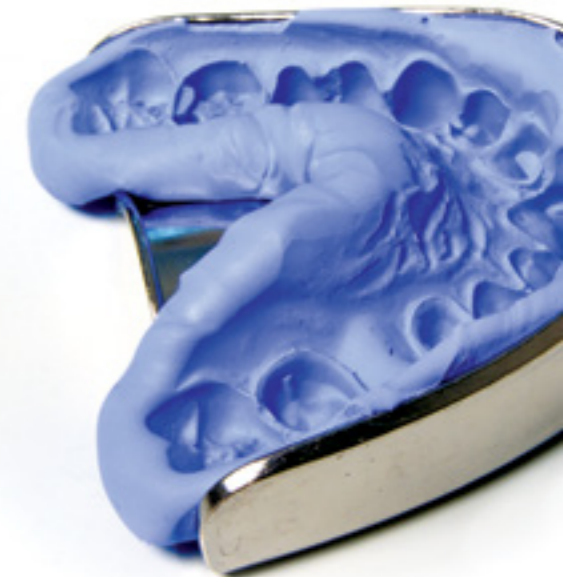
Gypsum models - soon relics of the past
Digital model-making directly from impression scans is surging forward with the emergence of reliable CAD/CAM tools such as 3Shape Model Builder. Driven by these trends, impression scanning is likely to completely replace gypsum scanning in the near future-making "gypsum only" scanners a potentially insecure investment.

Opening the way to model-free crowns
By omitting the model, labs can save production costs and be more competitive. Model-free crown production is expected to grow explosively in the future. 3Shape technology advancements such as virtual articulation and impression scanning are already allowing many labs to realize easy model-free workflows.

Adaptive Impression scan technology
3Shape's Adaptive scanning technology, 3-axis motion and multiple cameras ensure complete impression capture. Adaptive scanning detects incomplete areas and automatically builds adaptive scan sequences to capture full object geometry. Sophisticated automatic alignment methods bring preparation and antagonist scans into natural occlusion.

Combining many new innovations in the D900
The D900 scanner brings together the latest 3Shape scanner technology innovations. Blue LED speckle-free technology, a unique optical system with four 5MP cameras, and a new multi-die solution give users very high scan-speeds, unique color scanning capabilities, enhanced details, and high accuracy.

High productivity with Multi-Die scanning
Multi-Die scanning provides labs with 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. Next generation Multi-Die technology on the D900 optimizes speed and performance without compromising accuracy.
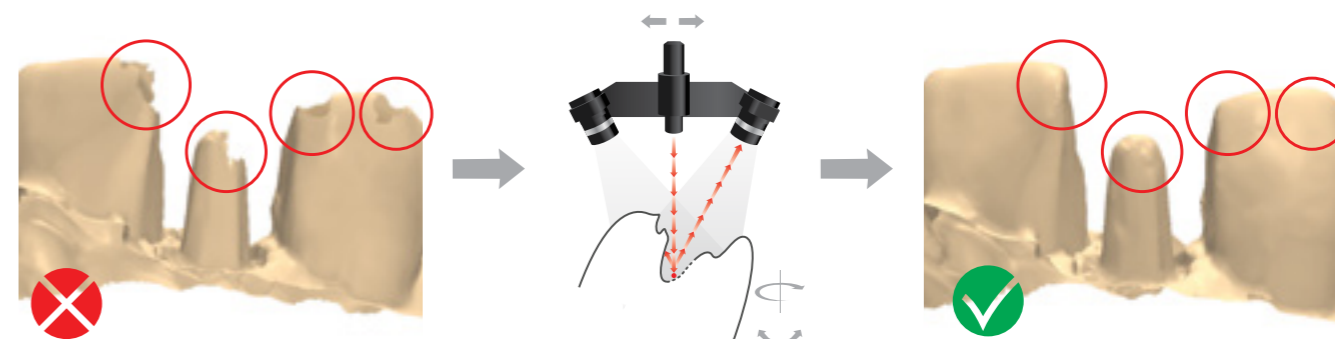
Before Adaptive Scanning
The first scan result is incomplete in the preparation, proximal and contact areas, which will jeopardize fit and clinical performance.

After Adaptive Scanning
A complete and accurate scan after adaptive scanning of incomplete areas while automatically applying the optimal combination of 2 or 4 cameras and 3-axis motion.

Open your doors to TRIOS® scans and expand your business

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

// Since we opened our doors to TRIOS® impressions, we have expanded our business with many new dentists"

Sune Schmidt
Lab Owner
Schmidt Dental, Denmark

NOW WITH COLOR

TRIOS® Inbox™ and Communicate™ expand business opportunities

Use the TRIOS® Inbox to easily connect and receive digital impressions directly from any clinic using TRIOS®. Instant notifications keep the dentist informed of case status at any time. Enjoy 3Shape Communicate's™ interactive platform for online exchange of case information, 3D designs, and messages.

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Promote your business with lab-branded order forms

Create your personal digital order forms using TRIOS® Order Form Wizard. Customize with your logo, product offerings, and add your own special information fields. Upload the digital form to all your TRIOS® dentists with a single click. Customized order forms make order management much easier for labs.
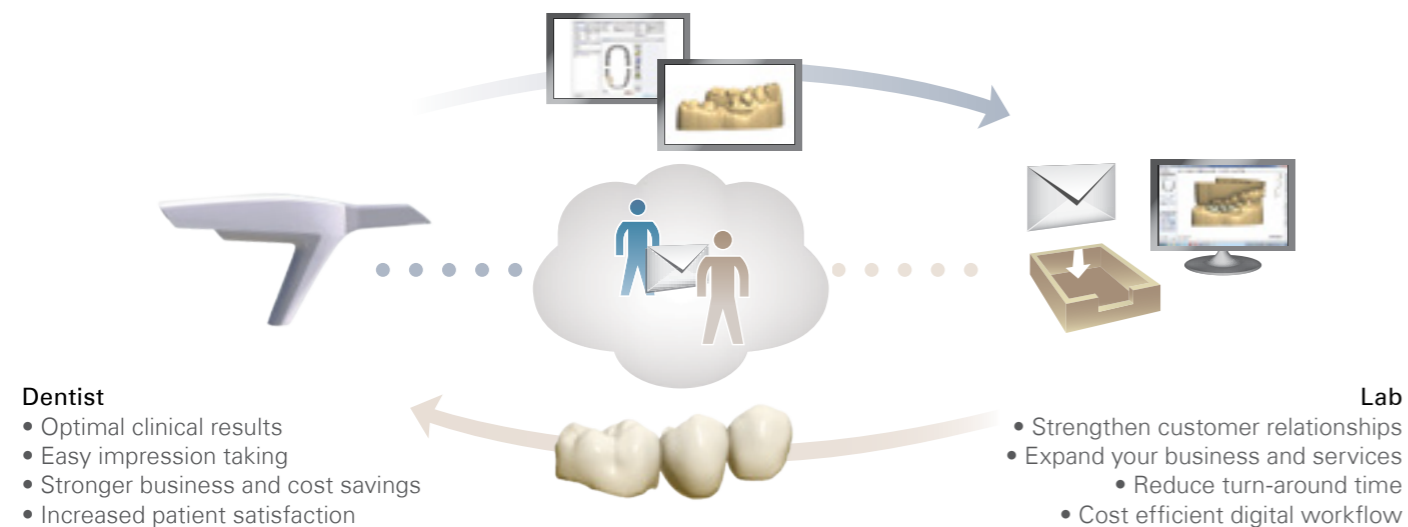
Strengthen customer relationships

Working with TRIOS® digital impressions in Dental System™ gives labs new business opportunities and cements business relationships with their dentists. Labs can promote and offer new services such as Digital Temporaries, Virtual Diagnostic Wax-ups, treatment planning, and Preparation Guides.

TRIOS 7 Ready Get your lab ready for TRIOS®. Visit: www.3shapedental.com/trios-ready/ for more information.

Dentist
• Optimal clinical results
• Easy impression taking
• Stronger business and cost savings
• Increased patient satisfaction

Lab
• Strengthen customer relationships
• Expand your business and services
• Reduce turn-around time
• Cost efficient digital workflow

Helping dental labs help their dentists

In today's increasingly competitive climate, labs that provide supplementary services for their dentists are winning territory in relation to production-only labs. 3Shape Communicate™ is a new service opportunity that retains dentist loyalty, attracts new clients and gives your lab a competitive edge.

Share, communicate, interact

Communicate™ is an advanced tool that lets labs and dentists share case information and view 3D designs on-line. Communicate™ can be used for all cases and is completely integrated in the TRIOS® workflow. Access the Communicate cloud directly from Dental System™, TRIOS®, your smart phone, or web browser.

A 3D picture says more than 1000 words

Upon completing designs, the system automatically sends a 3D model, screen shots, and comments to the dentist. Both dentists and labs are immediately notified of changes and can login to view, comment, or approve the design. Labs can present diagnostic wax-ups for dentists for use in before-and-after visualizations for patients.

iOS App to communicate anywhere and any time

With the new iOS App you can access cases and communicate anywhere and anytime. View scans and designs in 3D, and exchange comments with the dentist directly on your mobile device. Dentists can take patient pictures with their smart phone to send along with digital impressions.
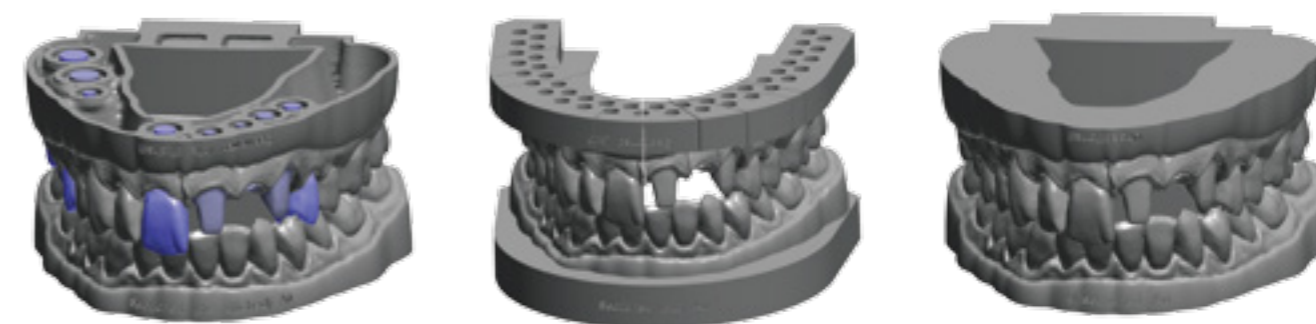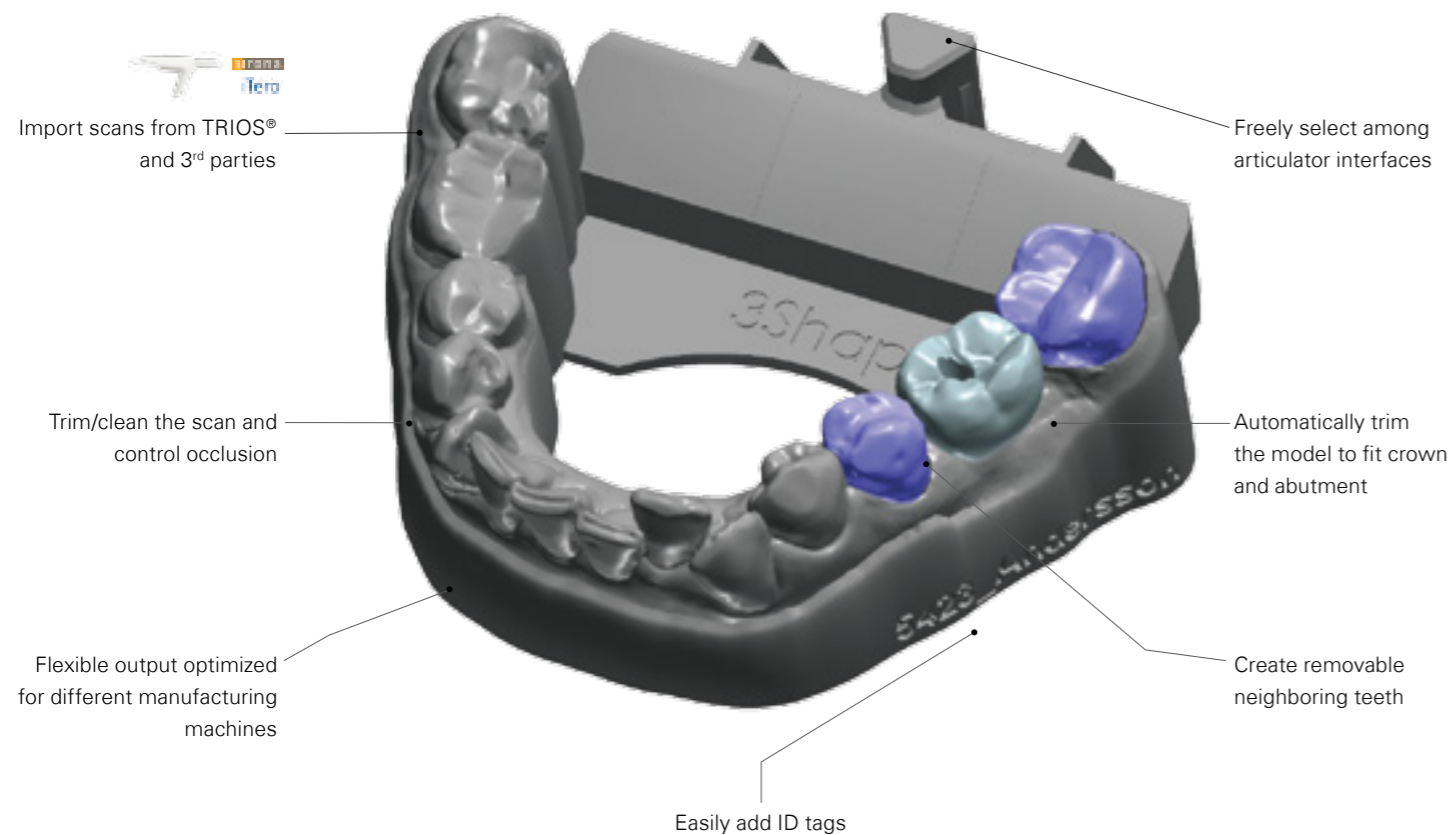
Lab CAD design

Dentist 3D view

Verified, proven and extensively used in labs all over the world

Model Builder™ lets technicians design lab models for many indications, including implant models, directly from TRIOS® digital impression scans, 3rd party intraoral scans, and physical impression scans. While closely collaborating with leading machine providers, 3Shape continuously optimizes its Model Builder™ for a wide range of manufacturing machines. Now you can easily produce your models locally - either in-house or through the manufacturing center.

Import scans from TRIOS® and 3rd parties

Freely select among articulator interfaces

Trim/clean the scan and control occlusion

Automatically trim the model to fit crown and abutment

Flexible output optimized for different manufacturing machines

Create removable neighboring teeth

Easily add ID tags

Freely select your model type

With Model Builder™, you can design different types of digital lab models for crown and bridge cases - Sectioned (dies ditched) models, Sectioned (Cut) models, and Unsectioned models with the option to produce dies separately.

COMING
DENTAL SYSTEM™ 2014

Precise implant models with soft tissue
Choose between two different types of digital implant models depending on indication type and preferences. Design your implant model with interfaces for integrated implant analogs, or with the abutment inserted as a die. Optionally add soft tissue.
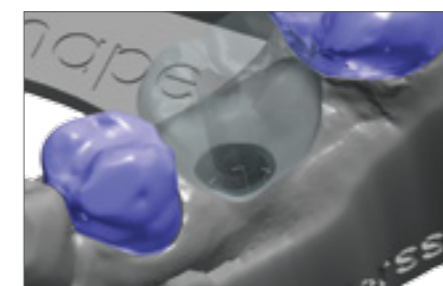
Cut model with final restoration
New option allows users to cut the digital model with the final crown design to ensure the restoration does not collide with the model's gingiva area. For example, cut the model with the abutment emergence profile. *Patent pending.*

Flexible articulator interfaces
Select the right articulator interface and add it to the design so that the model can be used with a physical articulator after manufacturing. Select among various pre-installed interfaces or add your own.

Productive and esthetic framework design

Productivity is at the core of 3Shape Dental System™. Thanks to a number of automated positioning and modeling features, it takes less than 1.5 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.

**COMING** DENTAL SYSTEM™ 2014

Automatic Scan and Design

Create the order, position the die, and start the fully automatic workflow that scans and even designs the coping without further user interaction. Review with the option to easily modify the final result. Support for multi-die scanning, and addition of neighborhood and antagonist scans.

Apply dentist dependent CAD settings

Define specific design settings for each dentist. When a dentist is selected in the Order Form, his predefined design parameters are automatically applied for the order. Design settings can be defined for each indication and for each material, e.g. cement gap and extra cement gap.

Anatomical frameworks for optimal support

Technicians start by designing the anatomy, and then add the underlying framework in a single and highly productive workflow. Dental System's™ unique anatomy-first design ensures optimal framework support for the ceramic layer with exact thickness - avoiding potential chipping and improving esthetics.
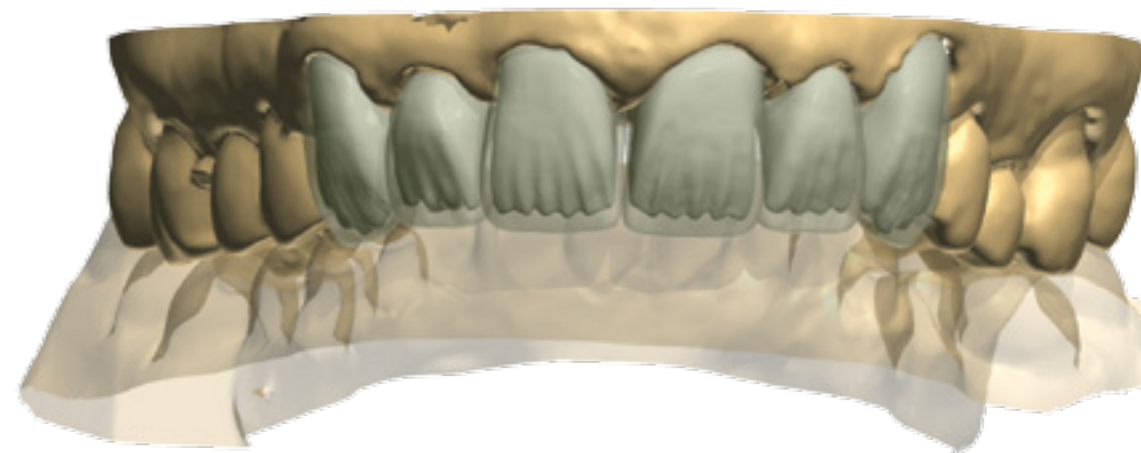
Create beautiful teeth with mamelon structures

You can now include sophisticated mamelon structures in your designs and achieve lifelike esthetics for your anterior cases. Start by designing the anatomy, and then apply the integrated mamelon library to automatically create the anterior framework design.

Total Time for a Coping: < 1.5 min.

Order Creation	Die Positioning	Die Scanning	Coping Modeling
10 Sec	15 Sec	19 Sec	40 Sec

Dental System™ optimizes your complete workflow - less than 1.5 minutes (1 minute in parallel) is enough to create a standard coping from order creation to completed design.
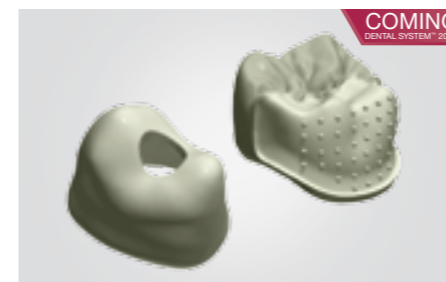
Even more attachments and retention structures

Position and adjust any attachment, e.g., slide/ball attachments, wax pins, holes, generic CAD files and leading attachment brands. Easily spray-paint retention structures or any attachment on design surfaces with set space. Perfectly position attachments parallel either with the insertion direction or with a group of other attachments.

Connector design and new split-bridge tool for long bridge cases

Split long-span bridges into two pieces using matching male and female slide attachments. Enjoy 3D controls for designing the connector, new shaping tools, and color coding of connector thickness. Create and edit connectors with optimized mechanical and esthetic properties and realize sophisticated designs of bridge frameworks and full anatomy bridges.

Color Texture - Bring your hand-drawn margin line into 3D

Dental System's™ D800/D900 series scanners support unique Texture Scanning that will accurately capture a hand-drawn margin line that you penciled directly on the physical model. The D900 supports Color Texture Scanning making it even easier to identify your markings and set the margin.

Meeting the future of Full Digital Crowns

During the last year, full digital crown production has grown explosively, driven by the success of full Zirconia, and an increasing demand for cost-efficient restorations. Dental System™ meets these trends with professional CAD tools such as the unique Smile Composer™ and an extensive range of anatomy libraries. Designing highly esthetic and functional full anatomical crowns and bridges has never been easier.

Automatic design of full anatomical crowns

COMING DENTAL SYSTEM™ 2014

Full anatomical crowns are automatically positioned and shaped to precisely fit the clinical situation. By using virtual articulators with Smile Composer™, only minimal manual modifications are needed for achieving optimal occlusion, contact points and marginal transition area. Mill in e.g. full Zirconia or glass ceramics, or use as temporary restorations.
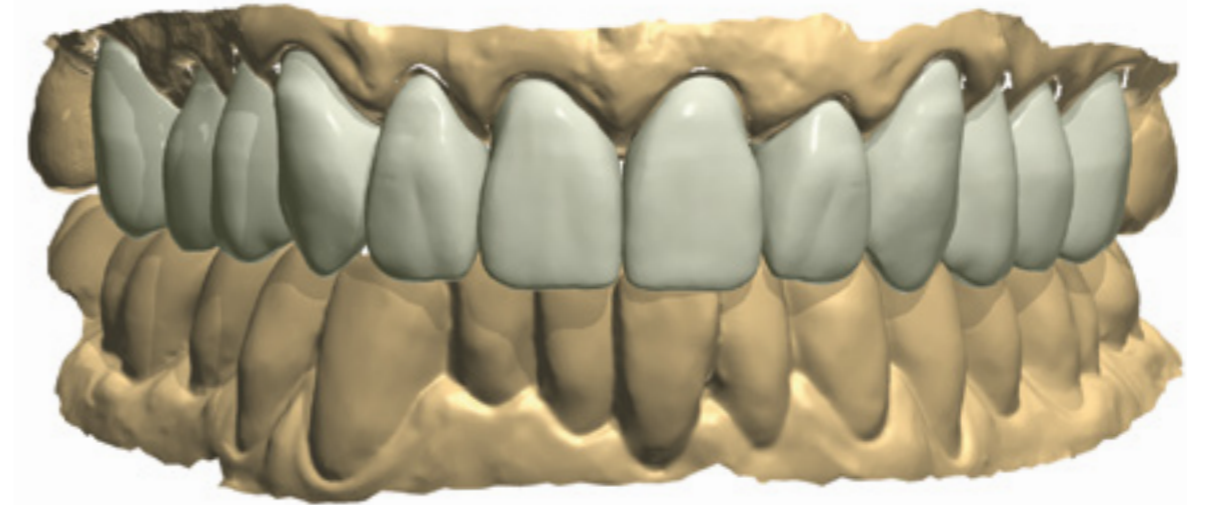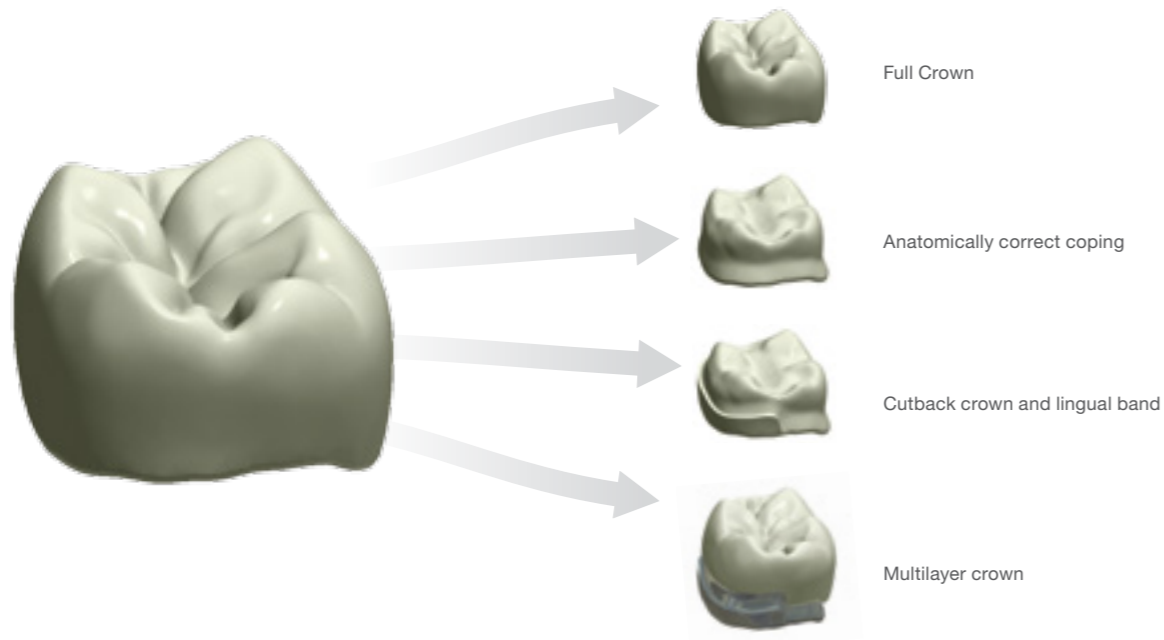
Professional Toolbox and over 80 anatomy libraries

Apply your artistic touch with the powerful Sculpt Toolbox, including virtual wax knife with threshold option, free-form morphing, cut to neighbors, and 2 types of Cut to Antagonist – Precise Cut and Anatomy Preserving. Select smile libraries that are prepared in full occlusion. Scan your favorite wax-morphologies to build your own libraries.

### Mirror CAD design or copy anatomy from any scan

Apply Virtual Mirroring of a designed tooth to model the corresponding tooth with perfect symmetry and esthetics. Work with 2 types of mirroring – copy the anatomical shape from opposing tooth in the scan or from the CAD design. Simultaneously scale and rotate opposing teeth to maintain symmetry.

Smile Composer™ - esthetic full anatomy bridges at unmatched speeds

Easily design highly esthetic full anatomy bridges by working with full smiles. In a unique and highly productive workflow, technicians can morph whole tooth-sets as a single unit, and now even move Upper and Lower designs simultaneously – saving time and improving esthetics for advanced bridge cases and full dentures. Quickly toggle between tools with the new short key functions.

Different restorations based on full anatomy design

Full Crown

Anatomically correct coping

Cutback crown and lingual band

Multilayer crown
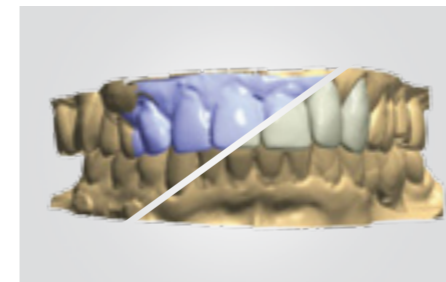
Morph anatomy to wax-up or pre-preparation scans

A new powerful tool allows users to create full anatomy restorations that correspond to the original teeth or to a well-functioning temporary. With a single click, the anatomical design is morphed to fit any wax-up or pre-preparation scan available with the case.

Sophisticated crown insertion tool

New tool for checking crown undercuts towards neighboring teeth to ensure smooth insertion of the final crown. A color map visualizes neighboring teeth-undercuts and with the new Threshold Sculpt tools, it's easy to adjust the crown for smooth insertion and optimal inter-proximal contacts.
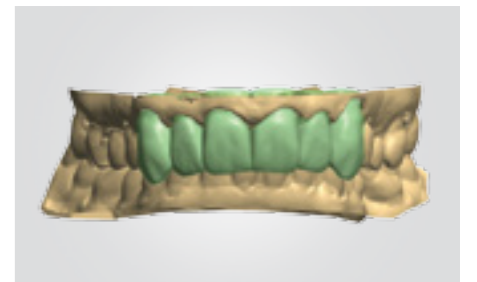
High esthetics with pre-milled ceramic crowns

A new approach to full digital crown manufacturing using pre-manufactured ceramic crowns with multiple layers and colors mimicking the real tooth. Choose among the libraries for pre-manufactured teeth, and then design the final restoration inside the boundaries of the pre-manufactured teeth.

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, reducing manual interaction and finishing.

Pressed crowns and bridges

3Shape's Multilayer technology is highly optimized for pressing of crowns and bridges. Two separate files are automatically created for output - one for the substructure and one for the overlying anatomical wax pattern - both files ready to be transferred to their respective manufacturing equipment.

### Glass Ceramics with high clinical quality

3Shape's Multilayer functionality enables high quality clinical results through restorations created by combining glass ceramics and Zirconia. The software creates the strongest possible support between the overlying glass ceramics layer and Zirconia substructure while ensuring optimal material thickness.

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Visualization of blocks makes it easy, economic, esthetic

Visualize and position ceramic blocks for optimal positioning of milling sprues and to easily split long span bridges into multiple blocks. For multicolor blocks, visualization lets you place the anatomy optimally in relation to the block's color layers to achieve high esthetics.

Multilayer Design for efficient pressed and glass ceramics production

Pressed

Glass ceramic
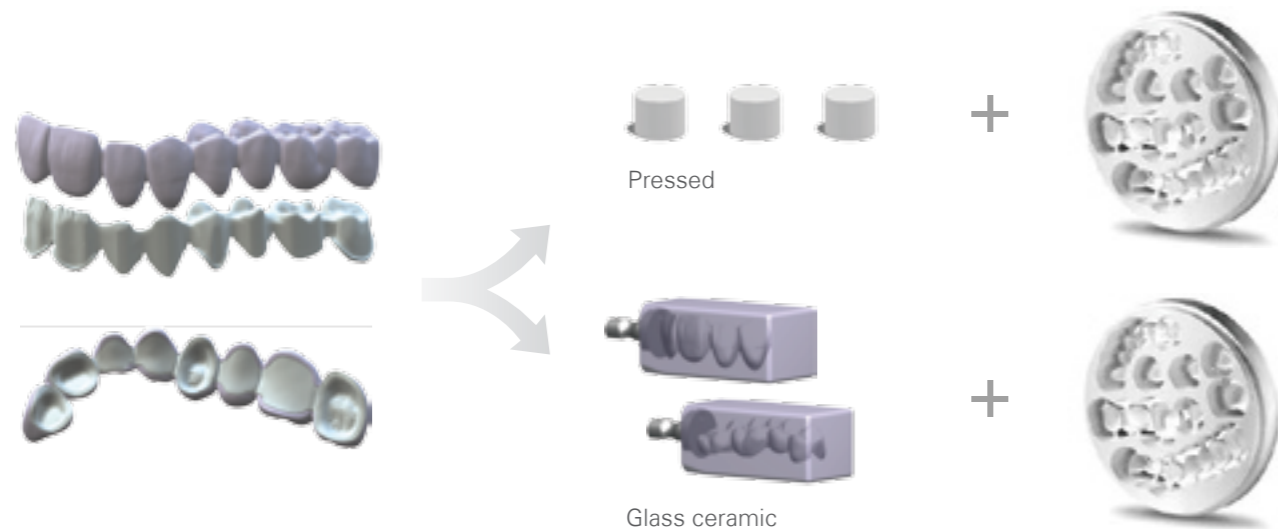
Superior function and fit with true articulator motions

Digital articulators allow technicians to design better crowns and save time on manual post-processing. Furthermore, they are necessary tools for labs that wish to create model free crowns and stay competitive through the latest industry trends. Dental System's™ proven Dynamic Virtual Articulators are packed with groundbreaking features for ease-of-use, precision and productivity.

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 manually or let the system play them all automatically as you watch. Apply virtual articulating paper or the Occlusion Compass to see the occlusion colored contact points. Additional support for Inter Occlusal Design. *Patent pending.*

Ivoclar Vivadent
STRATOS® 300

Next Generation Dynamic Virtual Articulators

3Shape's Dynamic Virtual Articulators provide a fast and precise way to carry out a traditionally manual task as an integrated part of the digital workflow. Select from a range of articulators and work virtually with your familiar articulator model and setting options.
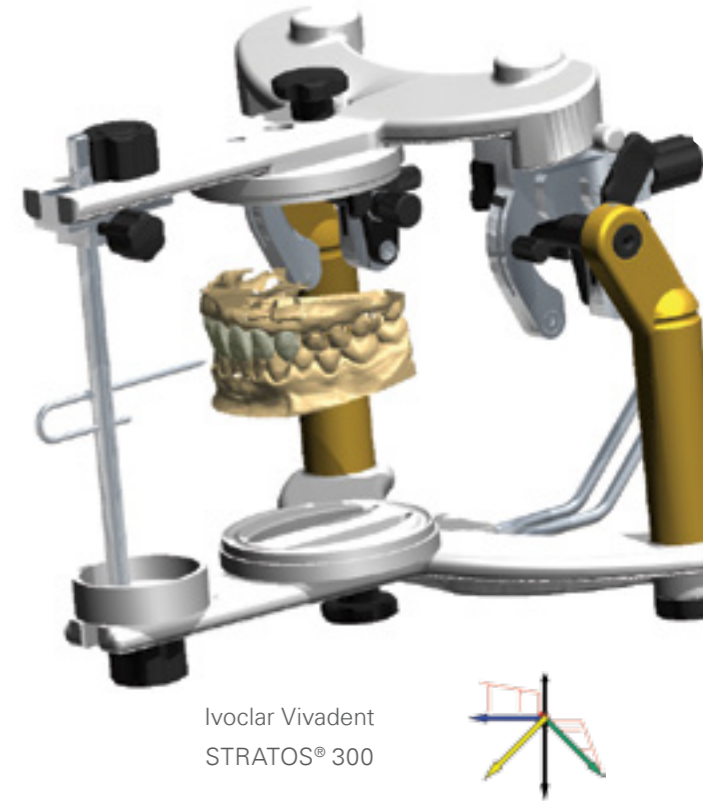
Linking physical and virtual workflows

Dental System™ supports the market's widely recognized articulators, providing an optimal user-experience and ensuring that the software settings are completely compatible when executing final quality control of the physical restoration.

Perfect function with Occlusal Compass

Apply Virtual Articulation Paper together with 3Shape's unique Occlusal Compass to realize optimal contacts with the opposing teeth for all jaw motions. With occlusion Compass functionality, the color of contact points are mapped to specific occlusion movements.

COMING
DENTAL SYSTEM™ 2014

SAM® 2P

Whip Mix
Denar® Mark 330

ACR (Artex™ Compatible)

KaVo PROTAR®evo

Transfer exact position to virtual articulator

Transfer the exact jaw position from the physical articulator into the Dynamic Virtual Articulator. Use the specially designed 3Shape Transfer Plates combined with your 3Shape scanner to capture the exact position and bring it into the software.

Optimized workflows for model-free crowns

Model-free crowns are predicted to be the future norm for crown production in modern labs. 3Shape's advanced digital articulators and continuous technology developments are realizing easy model-free workflows and crown production based on intra-oral scans and impression scans.
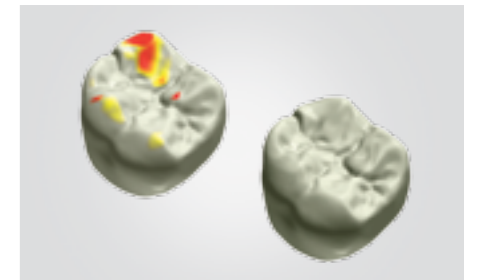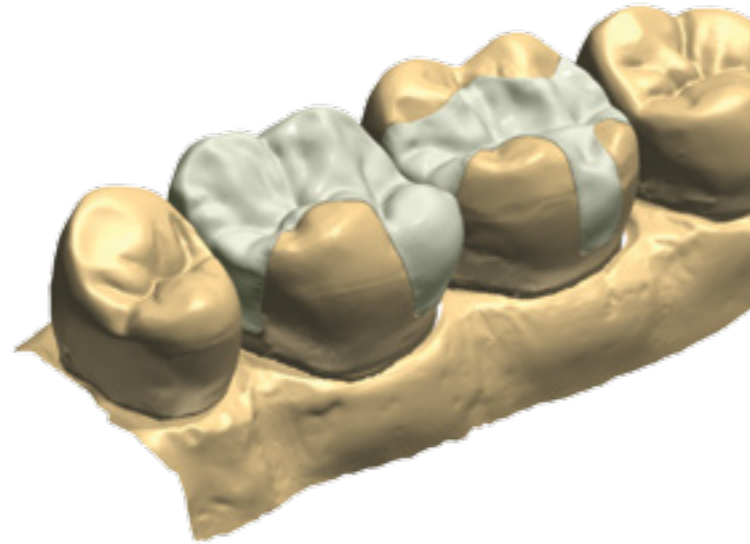
Automatic adapt occlusion

Use the Adapt Occlusion feature, to adjust occlusion with a single click. The Dynamic Virtual Articulator runs through the different motions and records the complete occlusal story, including contact points and depths in all jaw movements. Based on this movement data, occlusion is automatically adapted.
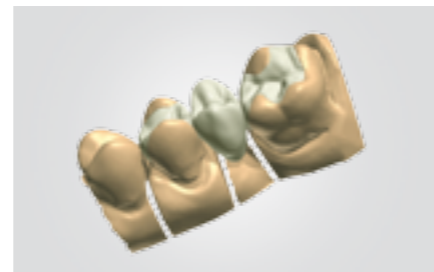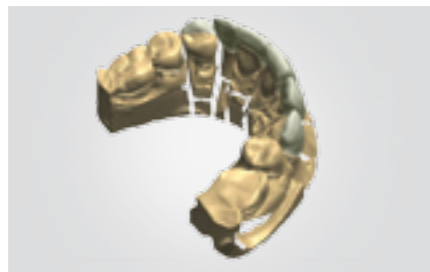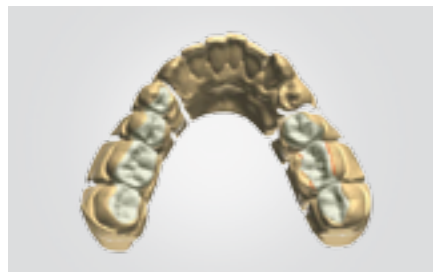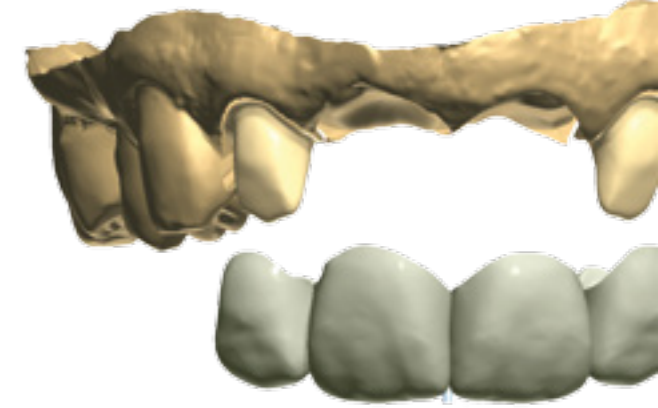
Expand your range of indications

With the increasing availability of monolithic materials and cost-efficient milling machines, inlays, onlays and veneers become increasingly attractive for labs seeking ways to improve their business. 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.
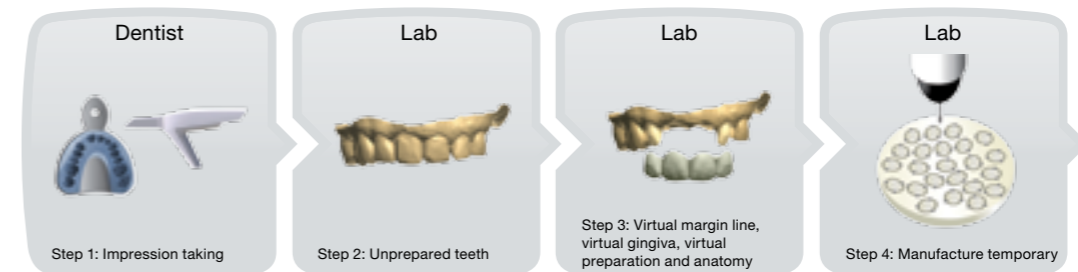
Optimized Inlay and Onlay design
Design optimal Inlays and Onlays with high esthetic results and minimal need for adjustments. New optimized algorithms automatically shape the Inlay and Onlay surfaces to the remaining tooth. The automatic margin-line detection functionality has been optimized for higher accuracy, so technicians only need to fine-tune the software's suggestion.

Highly esthetic Veneers
Combine Smile Composer™ with Dental System's™ automatic and freeform morphing technologies to design highly esthetic and correctly offset veneers based on the full smile. Dental System's™ Veneer designs are optimized for efficient manufacturing using the market's most esthetic materials such as those used with pressing or glass ceramics.

Sophisticated Inlay & Maryland Bridges
Dental System's™ flexible and productive Inlay, Onlay, Veneer modeling tools can be applied for creating multi-unit as well as single-unit designs. Easily generate esthetic Maryland Bridges by directly applying Veneer designs using Smile Composer™. Design Inlay Bridges by combining multiple Inlay designs in a single restoration.

Get an esthetic temporary shaped as the final crown

3Shape has created a whole new service option. Labs can now provide dentists with cost-effective temporaries that enable patients to try on the final crown design. Use 3Shape's unique Virtual Preparation tools and Smile Composer™ to design esthetic temporaries - often without pouring a gypsum model.

Dentist	Lab	Lab	Lab
Step 1: Impression taking	Step 2: Unprepared teeth	Step 3: Virtual margin line, virtual gingiva, virtual preparation and anatomy	Step 4: Manufacture temporary

Get a digital impression of the unprepared situation
The workflow starts with a 3D scan of the dental situation - ideally from a digital impression scan or conventional impression scan for maximum productivity. Gypsum model scanning is naturally also an option.

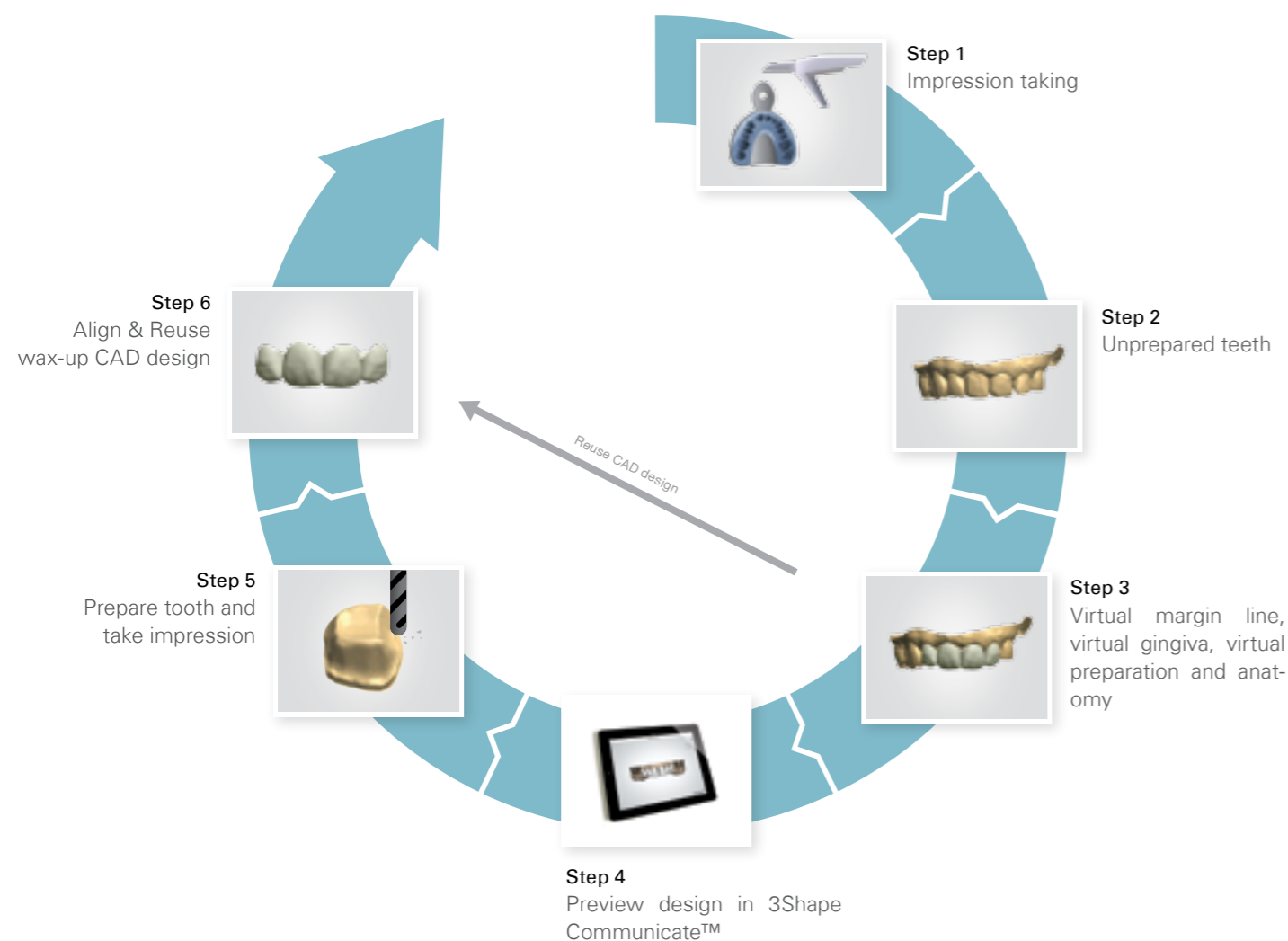### Virtual Margin Line and Virtual Gingiva
With the 3D scan loaded in Dental System™, technicians can apply tooth segmentation and set virtual margin lines. Digitally remove teeth and easily replace with smooth and perfectly formed Virtual Gingiva. *Patent pending*.

Reuse the temporary design for the final crown
Using 3Shape's Align & Reuse technology, designs for the temporary can be reused directly for the final crown design. Align the preparations with your temporary design to create a perfectly fitting final crown in record time.

Virtual Diagnostic Wax-ups as a new service

Impress dentists with powerful realistic diagnostic wax-ups that include the patient smile and secure the order for the final crown. Virtual Diagnostic Wax-ups represent an efficient planning and promotion tool for dentists, and a new service opportunity for labs. The digital workflow lets labs reuse the diagnostic wax-up design in the final restoration, saving time and costs by eliminating cumbersome manual reproduction of the diagnostic design. *Patent pending.*

Step 1
Impression taking

Step 2
Unprepared teeth

Step 3
Virtual margin line, virtual gingiva, virtual preparation and anatomy

Step 4
Preview design in 3Shape Communicate™

Step 5
Prepare tooth and take impression

Step 6
Align & Reuse wax-up CAD design

Reuse CAD design

Before

Virtual Diagnostic Wax-up

Virtual wax-ups that smile

Use Smile Composer™ to create esthetic Virtual Diagnostic Wax-ups with both crowns and veneers. Apply RealView Engine™ with patient face images to construct realistic and personalized before-and-after visualizations of the resulting smile. Send this lifelike virtual diagnostic wax-up through 3Shape Communicate™ for immediate dentist and patient previews.
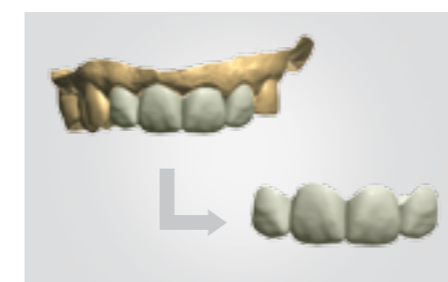
An instant restoration from the Virtual Diagnostic Wax-up

With 3Shape's Align & Reuse technology, designs for the Virtual Diagnostic Wax-up are instantly available to be reused directly for designing the final crown. This unique digital workflow is fast, easy, and eliminates the tedious process of manually achieving exact reproduction of the diagnostic wax-up design.
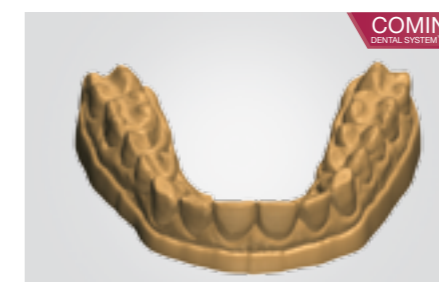
Add a printed wax-up to the package

Supplement your Virtual Diagnostic Wax-up with a physical replica. The feature provides a cost-efficient way to produce a physical diagnostic wax-up model. Provide printed wax-ups as an optional service that allows dentists to fully visualize the restorative needs of the patient in a traditional manner.
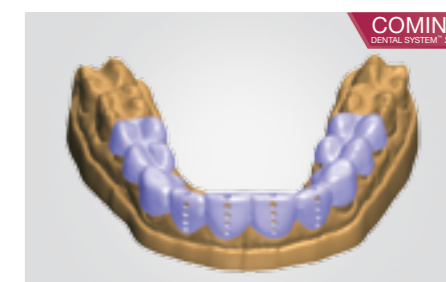
Preparation guides help realize diagnostic wax-up designs

Preparation Guides allow dentists to verify their preparations while the patient is in the chair. Preparation Guides ensure sufficient space for the final restoration. This unique service makes it easy for dentists and labs to realize the design that is planned in the wax-up.

Unique, fast, and full digital workflow

3Shape's completely new solution enables technicians to design Post and Core cases. All layers are created in a single workflow saving time and achieving optimal results. Unique scanning capabilities and modeling features come together, facilitating ideal designs for the specific clinical situation. *Patent Pending.*

Sophisticated designs to meet any clinical case

Create sophisticated primary and secondary telescope constructions for even complex clinical cases. Design the anatomy first to intuitively guide the telescope design, realizing optimal results in terms of space, functionality, and esthetics. Support for attachment crowns and sophisticated Stress Distribution Arms (Schubverteilungsarm).
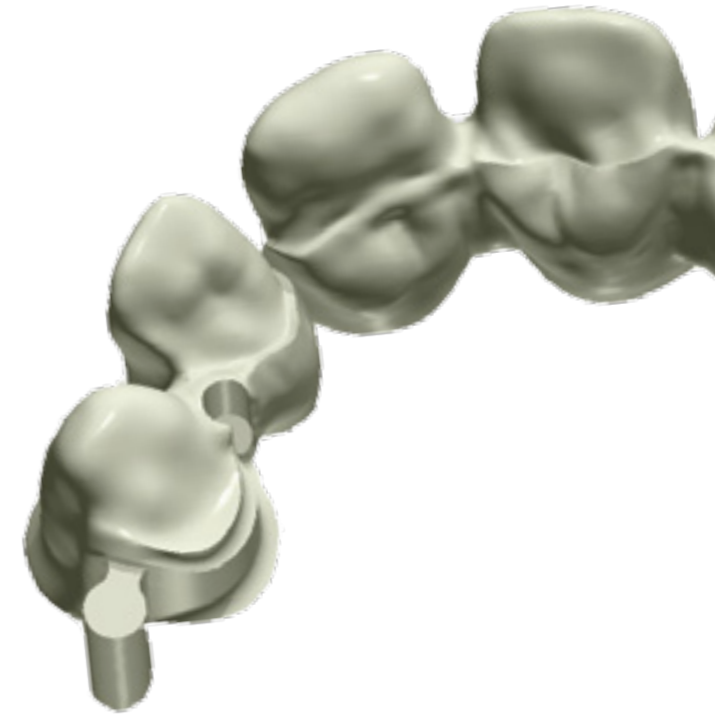

Flexible scan input
Scan models, impressions, or design directly from TRIOS® intraoral scans. Specially designed Scan Posts facilitate accurate capture of Post and Core positions and depths. Scan Posts are available both for intraoral use and model scanning, are autoclavable and support selected drill supplier systems.
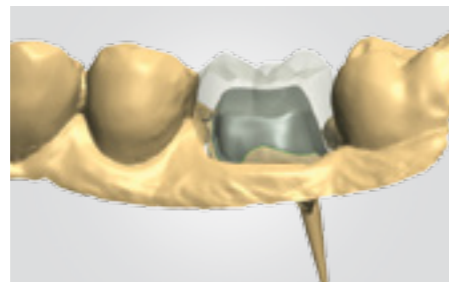
Optimal designs based on the final crown
By first designing the anatomy layer, technicians use dedicated tools to model an optimally shaped Post and Core guided by the form and boundaries of the final crown. Design Post and Core for standard crowns, single-piece retained crowns and anatomical single-piece retained crowns that are cutback for veneering.
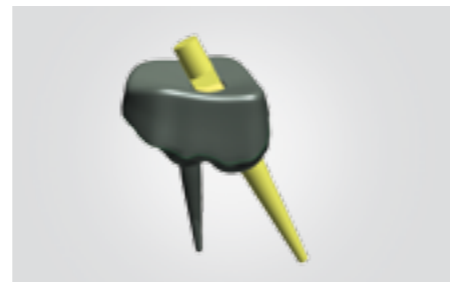
Supports multi-post cases and parallel core design
Easily design 2 or more Post and Cores that are perfectly parallel. Enjoy full support for multi-post cases. The software creates the first post automatically and then sets perfectly positioned and aligned insertion channels for the others – ensuring easy mounting of the restoration..

Flexible tools allow design freedom
Complete freedom in designing and adjusting telescope edge angles and shoulders. Design Open Telescopes to create metal-occlusion where space is an issue. Freely add as many bands as needed while adjusting width and angle to achieve optimal friction and ideal use of available space.

Get secondary crowns in the same workflow
Design both primary and secondary layers simultaneously in a single workflow - without rescanning. Output separate files for all layers, ready for manufacturing on milling machines or 3D printers.
*Patent pending.*
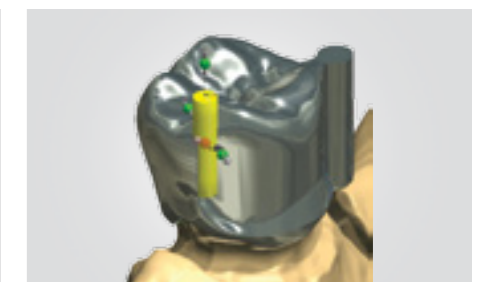
All types of attachment crowns
Add predefined attachments, adjustable parametric attachments, or your own shapes. Attachment-crown design includes support for all types of sophisticated Stress Distribution Arms (Schubverteilungsarm). Integrate full anatomies in your designs or apply accurate tooth reductions for hand veneering.

Visualize your cases in realistic shades and smiles

3Shape's RealView Engine™ provides a near photo-realistic visualization of the patient-case that brings together the patient's smile, designed teeth, existing teeth, and gingiva. Apply realistic shades while viewing 2D images of the smile to guide creativity as you design. Offer dentists What-You-See-Is-What-You-Get representations of restorations.
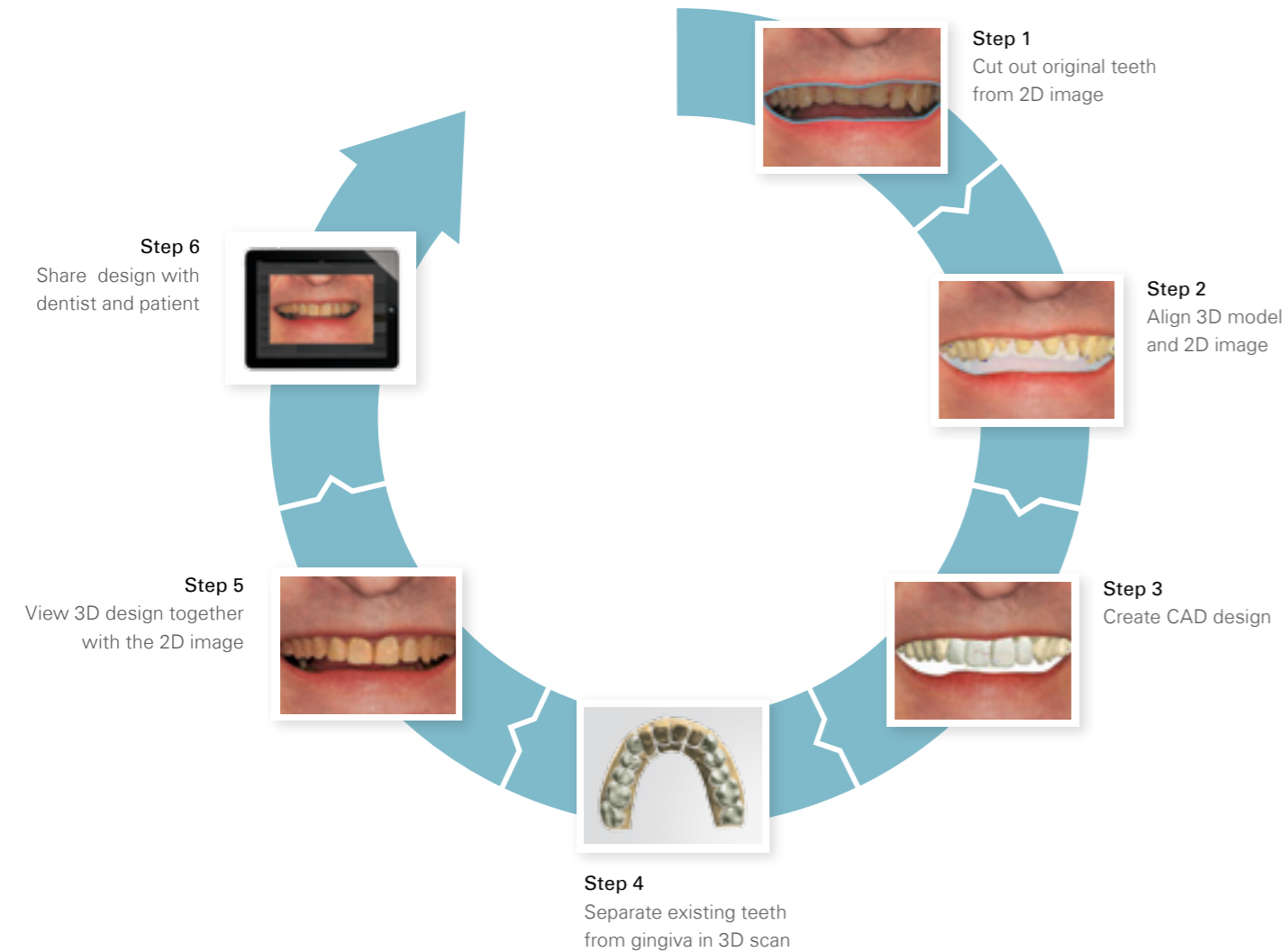
Match your designs to the patient's smile

Superimpose a patient's actual face images in the design process. Apply 3Shape Smile Composer™ and sculpt tools to produce optimally esthetic and personalized restorations guided by the visualization of the patient's smile. Freely fade in - out between the image of the patient's teeth and your 3D design as you work. *Patent pending.*

Step 1
Cut out original teeth from 2D image

Step 2
Align 3D model and 2D image

Step 3
Create CAD design

Step 4
Separate existing teeth from gingiva in 3D scan

Step 5
View 3D design together with the 2D image

Step 6
Share design with dentist and patient

Visualize the complete case in realistic shades

The RealView Engine™ is a sophisticated tool with unique technologies. The software efficiently and semi-automatically separates all teeth and gingiva captured in 3D scans. Create a photo-realistic rendering of the patient-case that includes existing teeth and gingiva as well as the newly designed restoration.

## Easy alignment with unique camera recognition technology

The software automatically aligns the position, angle and zoom of the 3D image to match the camera that was used to acquire the 2D image. Mark corresponding points on the 3D scan and the 2D image, and let the system do the rest.

Boost business with new services for your dentists

Apply the RealView Engine™ to support creation of exceptional and highly realistic Virtual Diagnostic Wax-ups for dentists and optionally for patient previews. Use 3Shape Communicate™ to send your RealView case images and discuss the case online. Enhance client relations by offering new services.
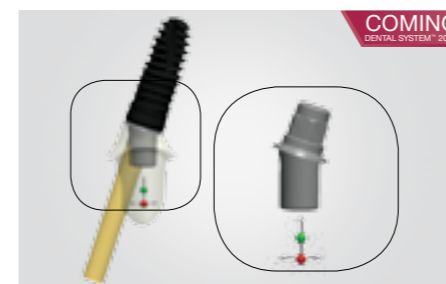
Customized Abutments - perfect esthetics made easy

The use of customized abutments is growing explosively, driven by better esthetics, cost savings, and CAD/CAM technology advancements. Abutment Designer™ makes it easy to design the customized abutment and the crown together in an integrated workflow. Model the anatomy first to visualize final results as you design and achieve optimal esthetics.
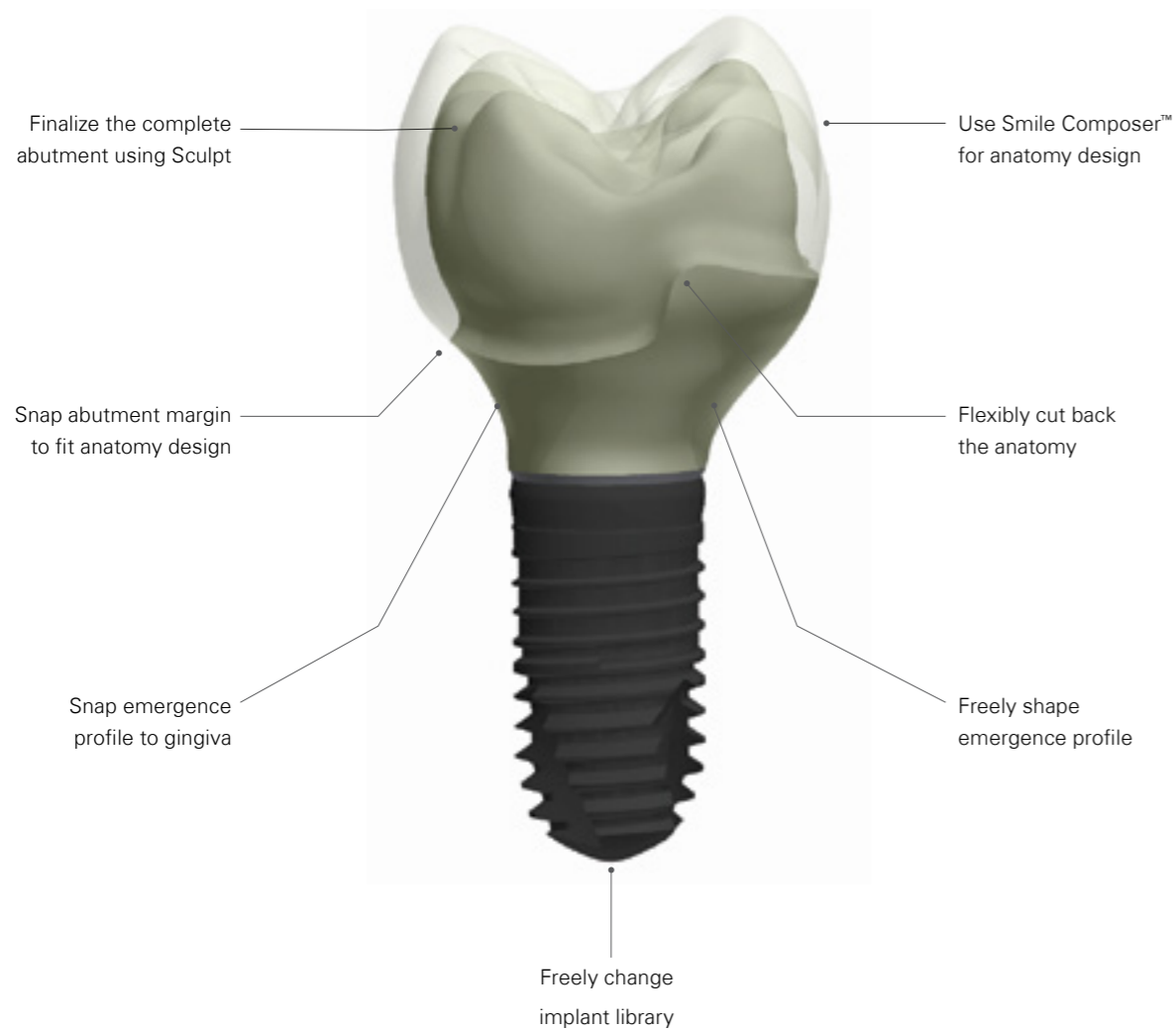
All types of abutments

Create customized abutments, screw-retained crowns and anatomical abutments. Select your abutment type and design the crown first to realize the perfect abutment and emergence profile without compromising crown esthetics. Use of screw retained crowns and anatomical abutments omits cement overflow that potentially impairs osseointegration of the implant.

Finalize the complete abutment using Sculpt

Use Smile Composer™ for anatomy design

Snap abutment margin to fit anatomy design

Flexibly cut back the anatomy

Snap emergence profile to gingiva

Freely shape emergence profile

Freely change implant library

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Customized titanium interfaces

For two-piece abutments, freely design the titanium interface achieving optimal esthetics. Adjust angle, height and shape for optimal placement within the crown while avoiding exposure of the titanium interface. The solution can be used with customized abutments, anatomical abutments and screw-retained crowns.
Patent pending.
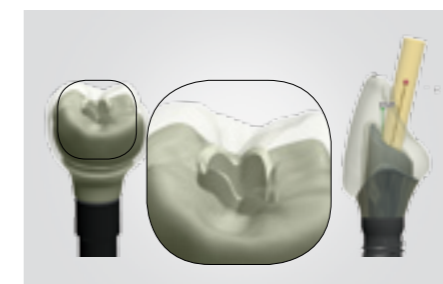
Angled screw-hole and screw-hole protection

Abutment Designer™ gives technicians complete freedom to position and angle restoration screw-holes, achieving high esthetics and avoiding screw-hole penetration in incisal edges or labial surface. Apply the Screw Hole Protection feature to prevent the added veneering layer from falling inside the screw hole.
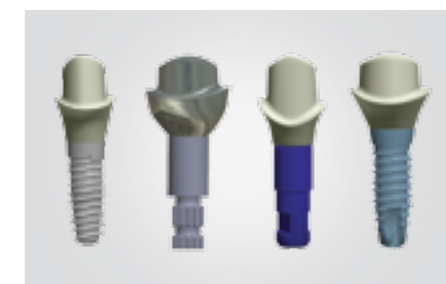
Original and compatible-with implant systems

Abutment Designer™ supports a vast number of different implant systems covering all global and key regional players. The actual implant libraries used in Abutment Designer™ can be obtained from your local reseller or the implant company. Dental System™ supports both original implant systems and "compatible-with" systems.

When precision and esthetics matter

Get a precise and productive 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 gingiva plus any type of attachment.

### D800 and D900 scanners optimized for bar accuracy

Implant bars and bridges demand accuracy levels that only few scanners can deliver. Labs all over the world use 3Shape's D800/D900 scanners to produce implant bars and bridges of extraordinary quality.

Professional design tools

Use flexible and intuitive tools to form the bar to fit the denture, gingiva and implants optimally. Measure space and distance, and shape implant connections as cylindrical extensions or freeform emergence profiles.
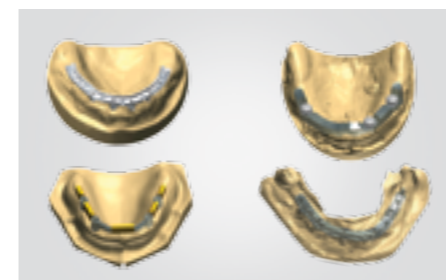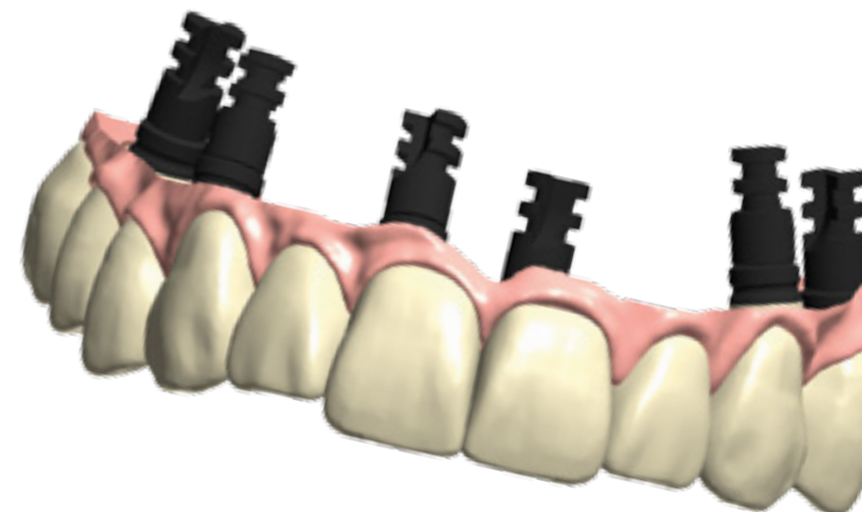
Add any attachment

Freely add slide attachments, ball attachments, locators and retention holes - and fine-adjust their position and angles. Utilize new retention pin libraries to achieve perfect fits with acrylic teeth or import your own CAD library of attachments.
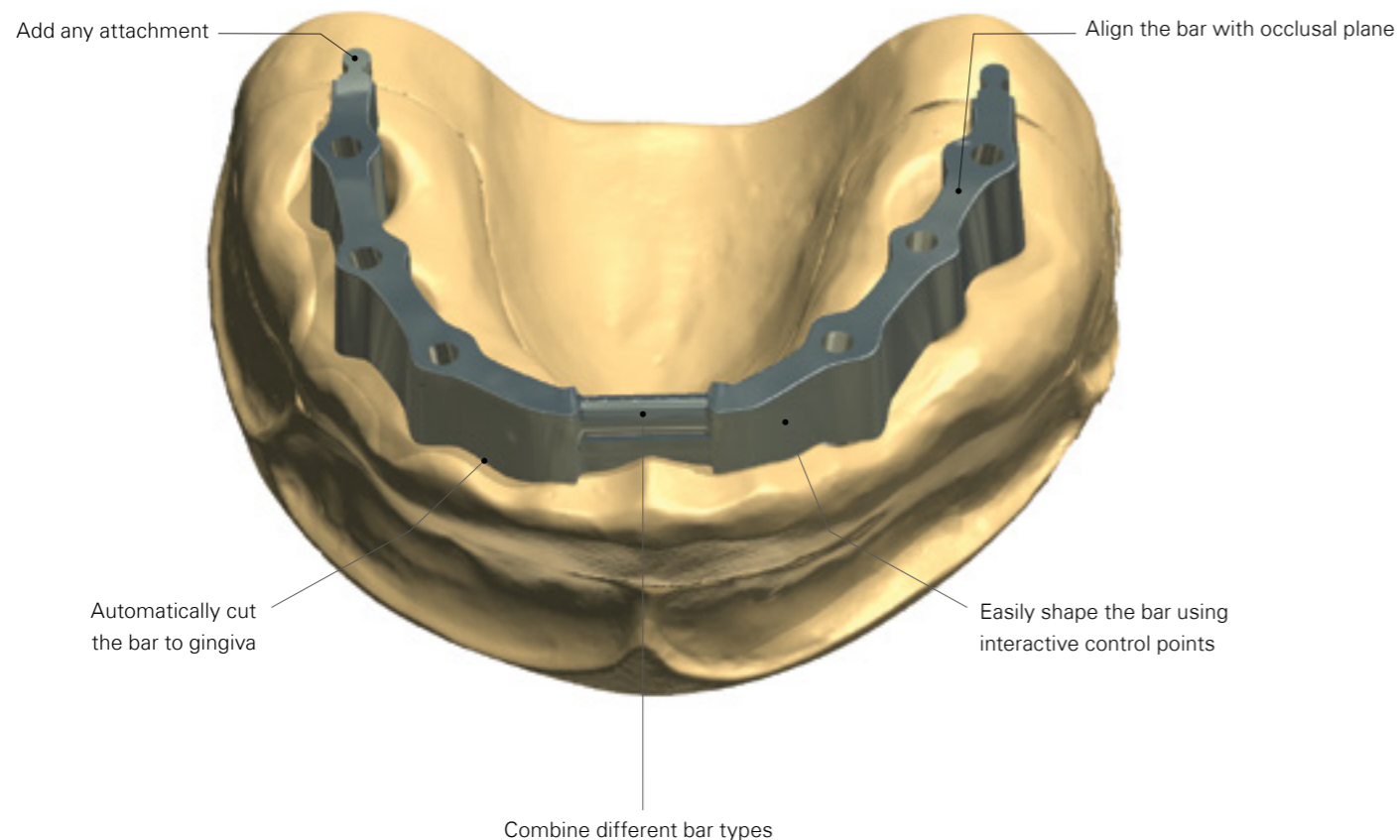
Implant bridge complete with gingiva

Apply the new anatomy first workflow to design an optimally esthetic implant bridge with gingiva. Use the unique Gingiva Design tool to define the gingiva's boundary and let the software suggest an initial form that can be refined. Cut back selected areas of teeth and gingiva to prepare space for hand veneering and acrylic layer.

Add any attachment

Align the bar with occlusal plane

Automatically cut the bar to gingiva

Easily shape the bar using interactive control points

Combine different bar types

Any type of bar to match your case

Dental System™ supports an extensive range of standard bar and bridge types such as Primary, Dolder, Hader, Hybrid, Canada, and Wrap-around. The software allows you to combine different bar types in the same design and easily add your own bar profiles.

Freely and easily shape your bar to gingiva

Control points let you pull on any area to freely shape your bar. The Cut-to-Gingiva tool automatically shapes the bar's bottom to match the underlying gingiva. Align the topside so it is parallel with the occlusal plane ensuring optimal stability and function of the final denture.

Obtain a design directly from denture or wax-up

Scan the denture and then virtually cut back to facilitate design of an implant bridge optimally matched to the patient's clinical situation. Alternatively, scan an original wax-up bridge to create a digitized file that is perfect for copy milling in a new material.

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Prosthetics and Implant planning finally brought together

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At last, a system that brings together implant planning, prosthetics, and drill guide design to provide a cost efficient solution that improves turn-around time and opens new business opportunities for both dentists and labs. By integrating implant planning with Dental System's™ design workflows, labs can provide complete treatment packages up front.
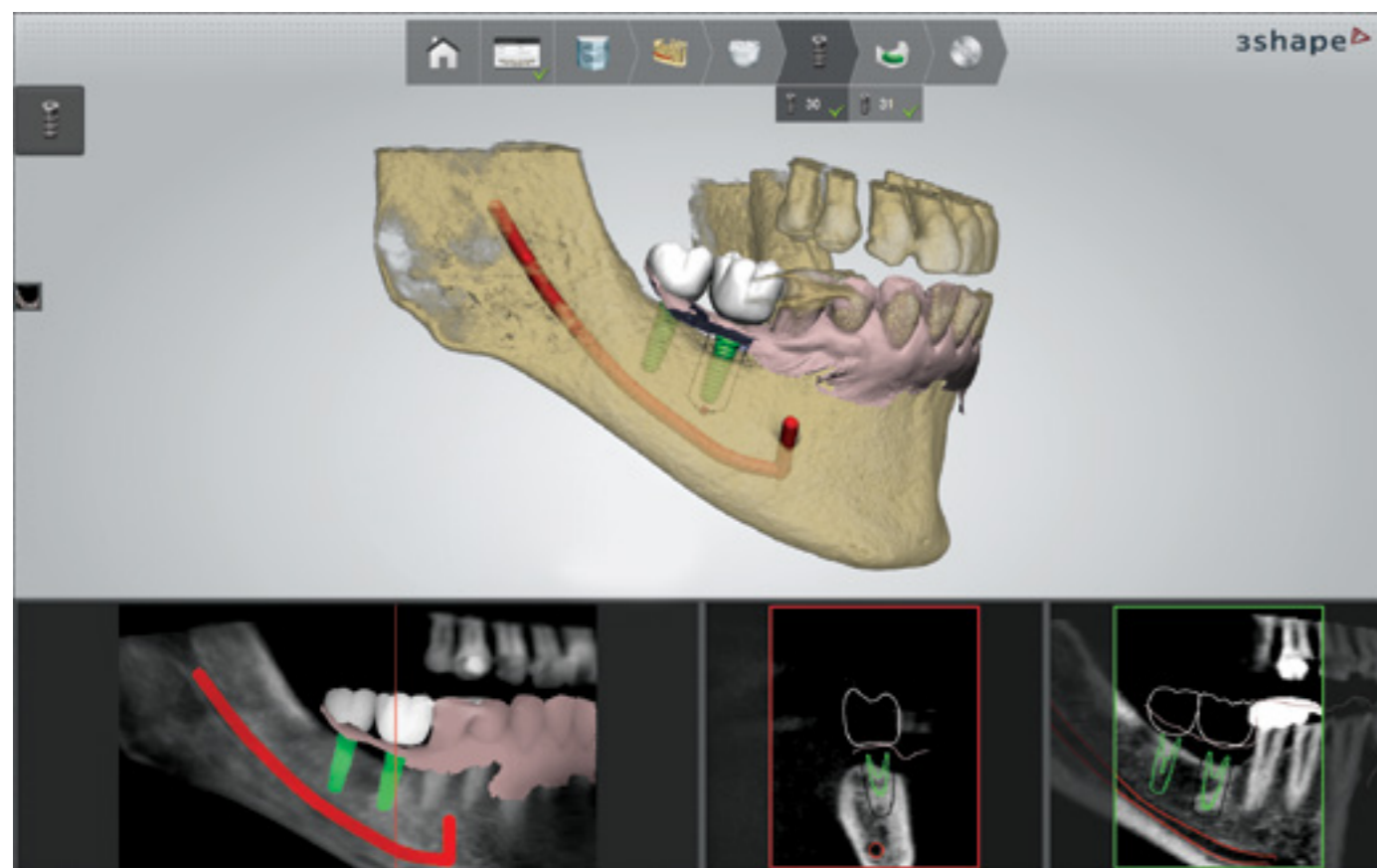
Based on the CBCT scan and optional surface scan, users start by placing the crowns, followed by placement of the implants and creation of the drill guide.

Cost-efficient drill guides produced locally

The technician simply sets an outer-boundary for the drill guide. The software combines this with the planned implant positions to automatically design an accurate drill guide that will aid the dentist in realizing planned implant positions and enable flapless surgery. Drill guide designs can be produced locally and in a cost efficient manner on verified 3D printers or milling machines.
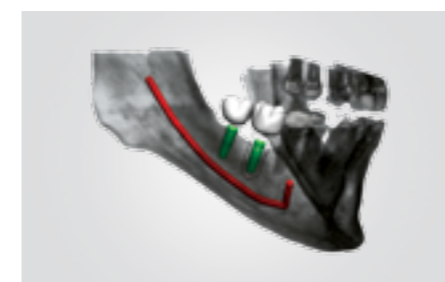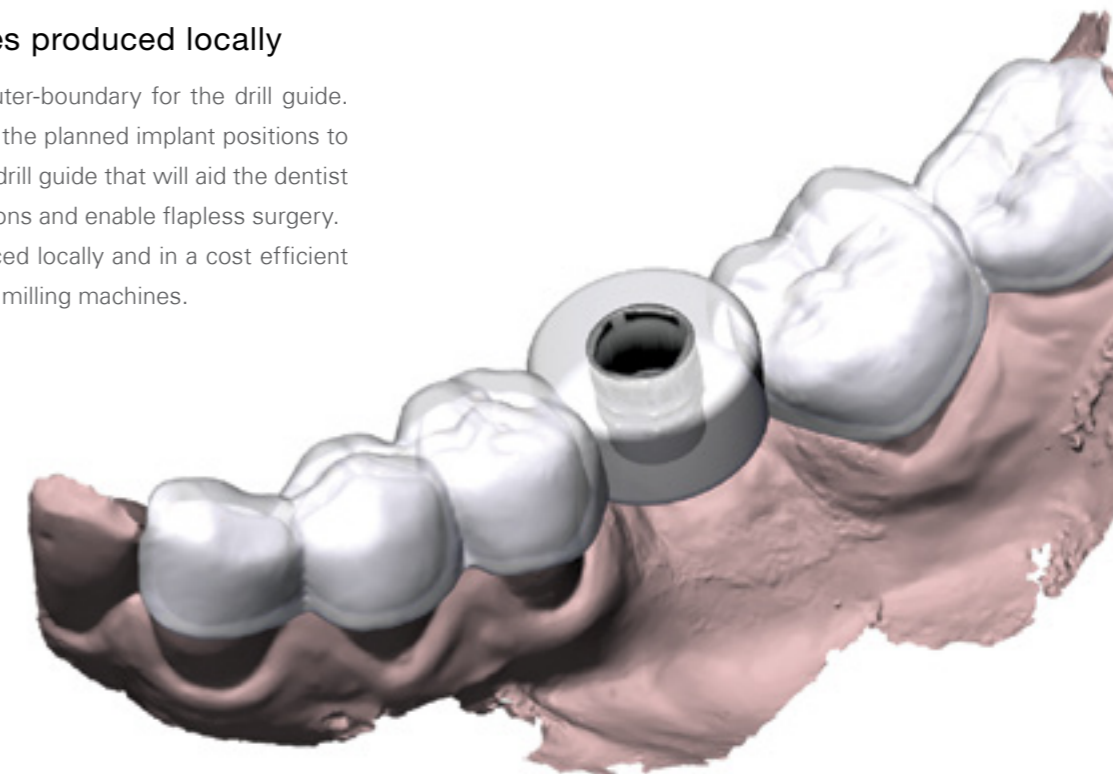
Interactive prosthetics and implant planning

Design esthetic and correctly placed crowns. Based on the crowns' position, virtually place the corresponding implant while accounting for the clinical situation including bone density, and nerve positions. Optimal clinical results are achieved by iteratively updating the combination of teeth, implant and drill guide.

Design all restorative components based on implant positions

Utilizing their implant planning, technicians import implant positions into Dental System™ to create temporary crowns and bridges, customized abutments, and even the final crown using all existing materials and manufacturing options. Labs can provide dentists with complete treatment package services including drill guides and restorative components.

Customized healing abutments for optimal clinical results

A new and unique tool in Abutment Designer™ enables efficient design of customized healing abutments with an optimal emergence profile that helps form the gingiva for the best esthetic and clinical results. Reuse the healing abutment's emergence profile for the final abutment. *Patent pending*.
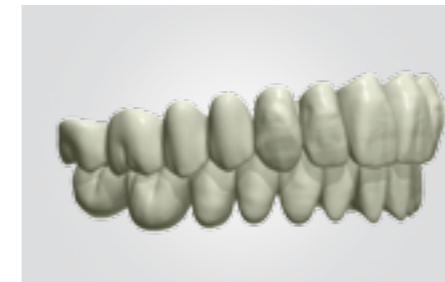
Digital Dentures in a fast and easy workflow

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3Shape's new Denture Design™ software brings digital precision and efficiency to a traditionally technique demanding process. By combining the flexibility of 3Shape's Smile Composer™ with the unique Gingiva Creation Tool, technicians can model highly esthetic and functional dentures while significantly shortening the time usually needed to design. *Patent pending.*
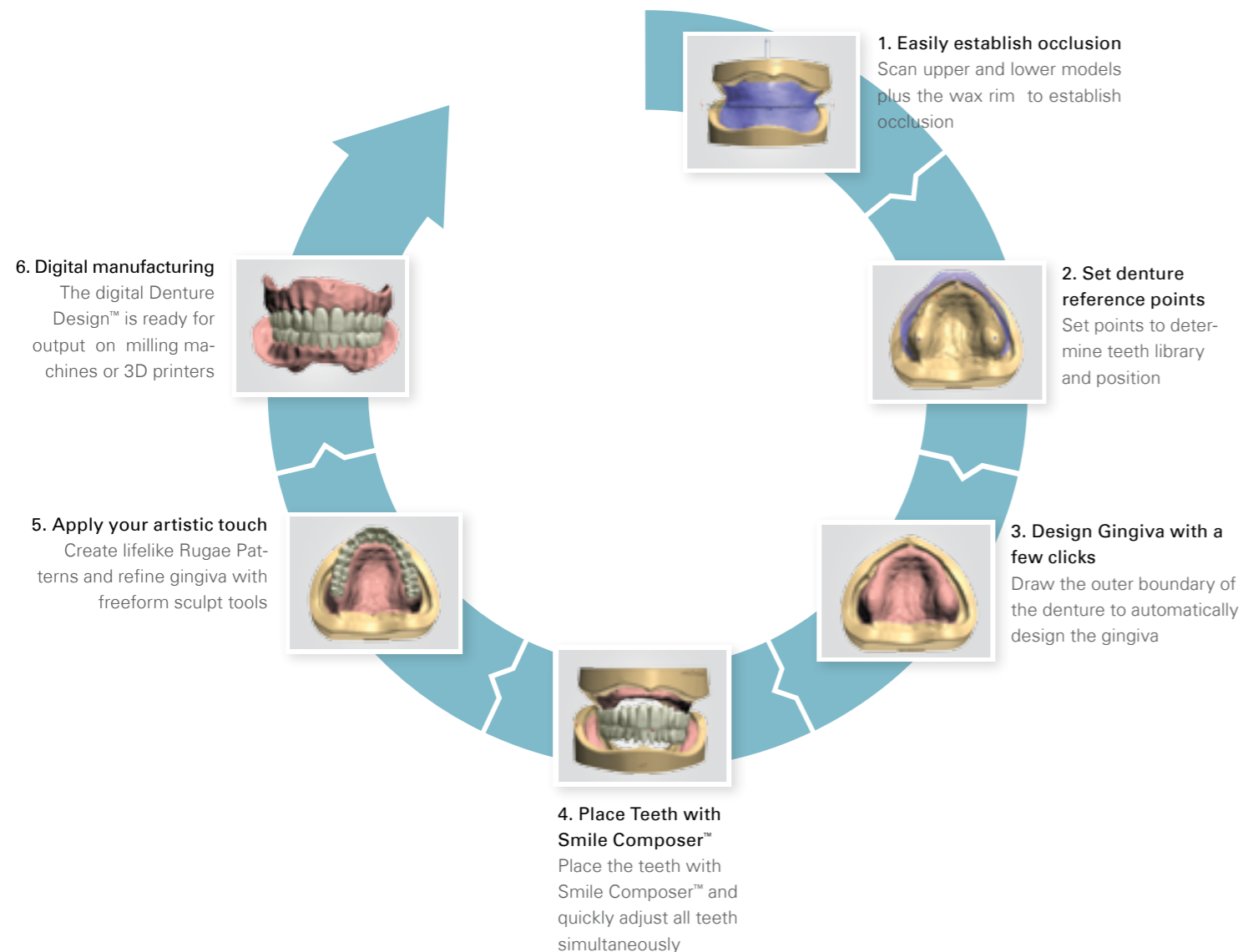
Use Smile Composer™ for placing teeth - fast and easy

Quickly set all teeth using Smile Composer™ and adjust upper and lower as well as left and right sides simultaneously. Use unique tools to preserve occlusion and apply the virtual occlusal plate to modify and fine-tune. Finally, apply the Virtual Articulator to optimize the denture's dynamic occlusion.

1. Easily establish occlusion
Scan upper and lower models plus the wax rim to establish occlusion

2. Set denture reference points
Set points to determine teeth library and position

3. Design Gingiva with a few clicks
Draw the outer boundary of the denture to automatically design the gingiva

4. Place Teeth with Smile Composer™
Place the teeth with Smile Composer™ and quickly adjust all teeth simultaneously

5. Apply your artistic touch
Create lifelike Rugae Patterns and refine gingiva with freeform sculpt tools

6. Digital manufacturing
The digital Denture Design™ is ready for output on milling machines or 3D printers

Smile libraries in perfect occlusion
Easily access smile libraries containing denture teeth from leading brands. Libraries provide complete smiles preset in perfect occlusion. Technicians can freely combine different smile libraries and anatomy libraries to achieve a denture and teeth setup that is perfectly matched to the clinical case.
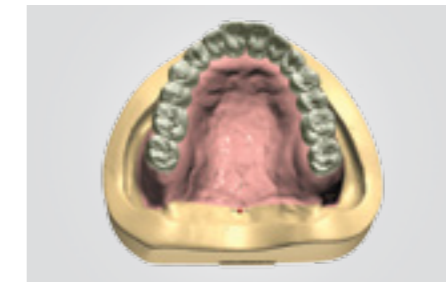
Design a perfect Gingiva with a few clicks
Draw a line to define the outer boundary of the denture directly on the scanned model. The system automatically designs the gingiva perfectly shaped to fit the teeth. Add anatomical details to the gingiva with sculpt and edit tools and easily create lifelike Rugae Patterns.
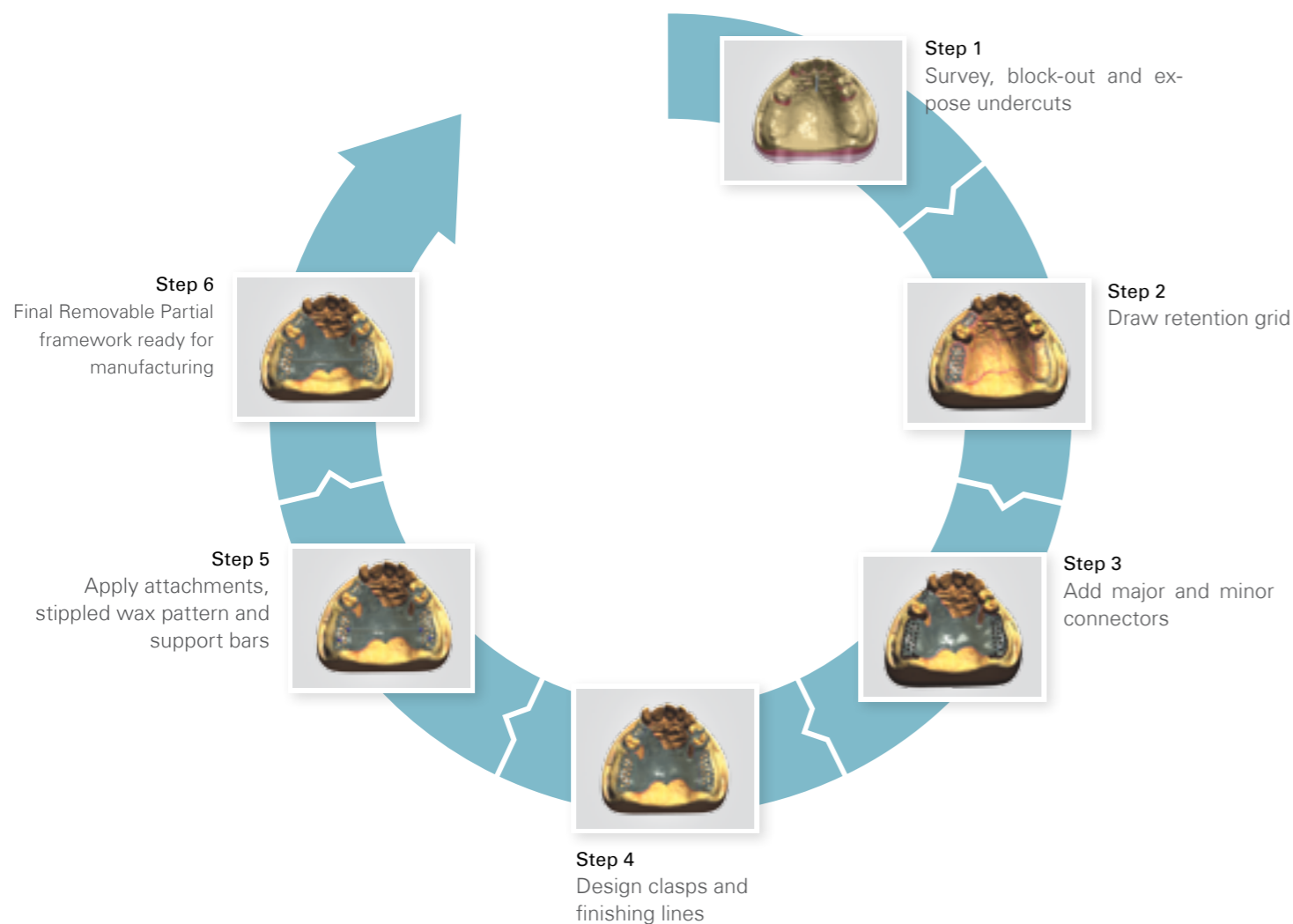
Manufacture teeth and gingiva separately
Output digital Denture Designs™ on a variety of milling machines or 3D printers. Produce the denture's gingiva base with insertion slots accurately set for easy insertion and fixation of the teeth. The teeth can be produced as modified acrylic teeth or customized manufactured teeth, e.g. full Zirconia.

Design removable partials in less than 15 minutes

3Shape's 3rd generation Removable Partial Design includes new and powerful tools for reliable creation of removable partials while reducing production time by 60-70%. Technicians start by designing the anatomies before the framework, thereby gaining accurate digital control over a technique-demanding process. Design both metal and flexible frameworks.

Step 1
Survey, block-out and expose undercuts

Step 2
Draw retention grid

Step 3
Add major and minor connectors

Step 4
Design clasps and finishing lines

Step 5
Apply attachments, stippled wax pattern and support bars

Step 6
Final Removable Partial framework ready for manufacturing

With 3Shape RPD design software, I am able to increase my productivity significantly while consistently delivering high quality results - it's a true differentiator for my lab."

David Schwab
Director, Dentacast, Australia

Add reduced anatomies to the Removable framework

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Design and apply reduced anatomies as integrated parts of the framework - ready for hand veneering. By designing the anatomy first, technicians ensure an optimal framework according to all teeth positions. Gain all the advantages of metal constructions such as wear resistance, framework strength and excellent esthetics.
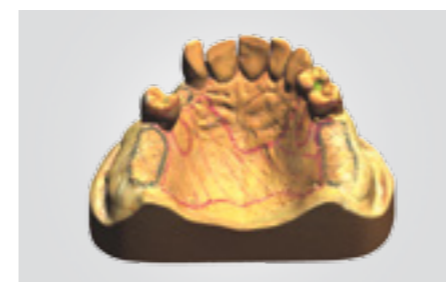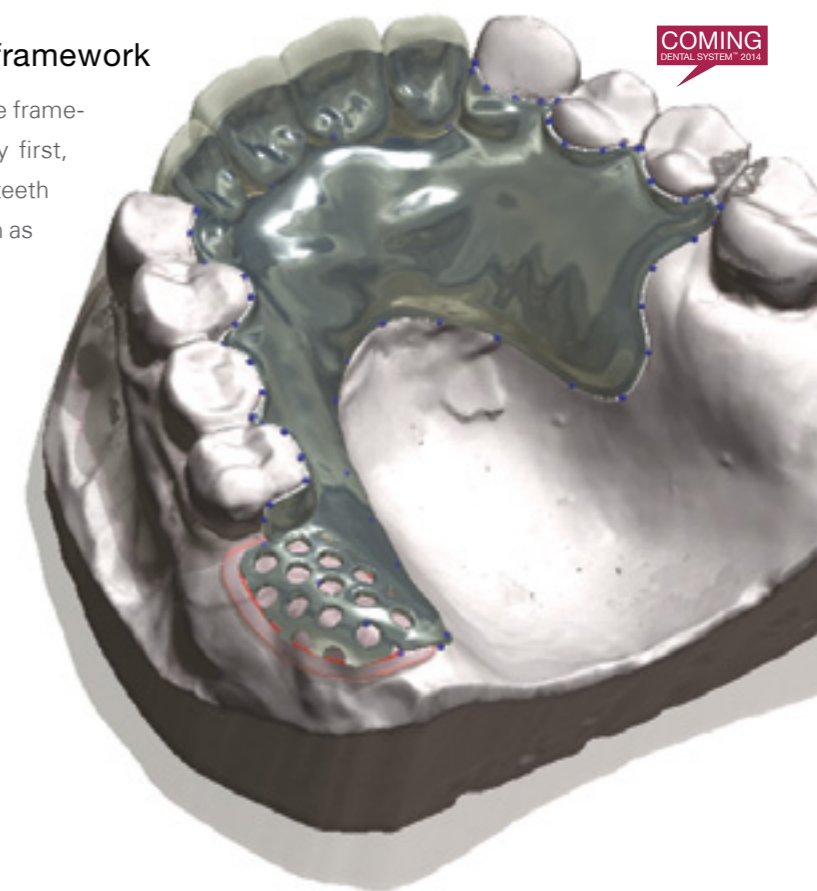
Scan pencil markings on the model
Texture scanning, on the D800 and D900 series scanners, captures 2D images of the gypsum model surface and precisely overlays these on the 3D model - enhancing visualization of surface details and bringing hand-drawn design guidance markings into the scan.
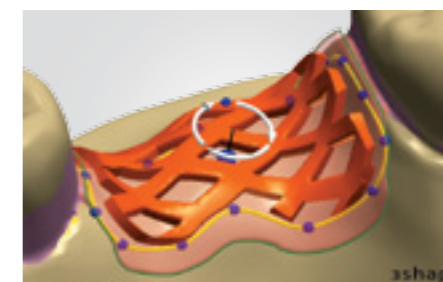
Design sophisticated retention grids
3Shape's Removable Partial design has been empowered with new features, including the Retention Grid tool that lets users easily pan and rotate the grid patterns for optimal placement. Additionally, the Retention Grid library has been expanded with a new 'Rhombus' grid pattern.
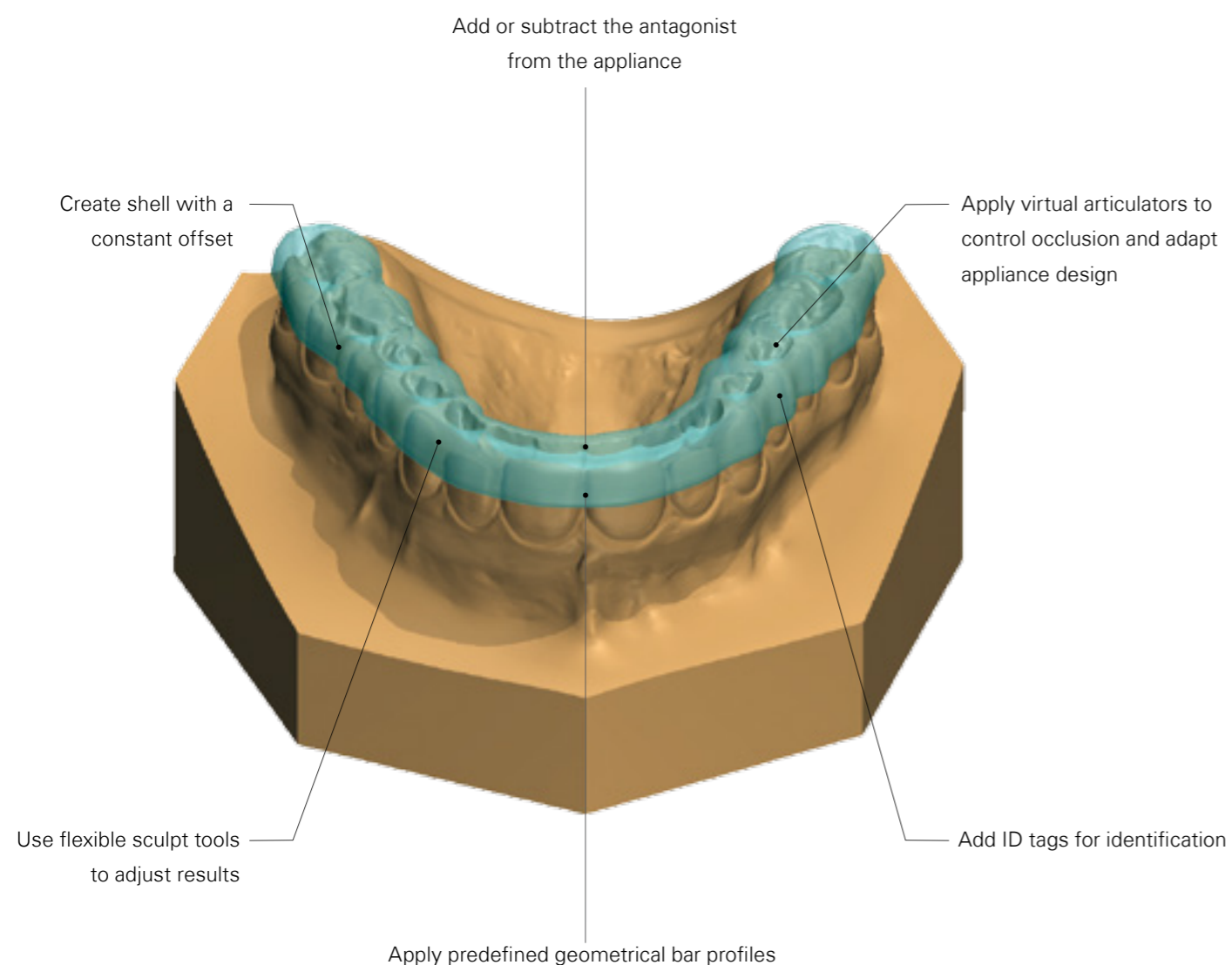
Laser Sintering lets you skip casting
Due to recent advancements in Laser Sintering technologies with improvements in materials, software, and machines, Removable Partials can now be digitally manufactured in metal directly from the CAD design file, completely omitting the need for wax-casting and bypassing manual production steps.

Expand your business with orthodontic appliances

3Shape's new Ortho System™ 2013 helps labs leverage their investment in Dental System™, by strengthening their orthodontic activities, opening new services, and building closer business ties with professional orthodontists. The new Splint design module offers labs a cost-efficient getting-started software for CAD design of common appliances.

Add or subtract the antagonist from the appliance

Create shell with a constant offset

Apply virtual articulators to control occlusion and adapt appliance design

Use flexible sculpt tools to adjust results

Add ID tags for identification

Apply predefined geometrical bar profiles

Easily create all types of appliances

Use 3Shape Appliance Designer™ to create night guards, retainers, customized bands, splints, surgical bites, palatal expanders, bionators, Twin blocks, Herbst appliances, Planas tracks and more. Powerful toolbox includes bars based on predefined 2D profiles, shelling, undercut blocking, attachments libraries, ID tags, virtual articulators, sculpting tools and more. Output modified study models, moulds, or appliances using 3D-driven machines and materials.

COMING
DENTAL SYSTEM™ 2014

Before   After
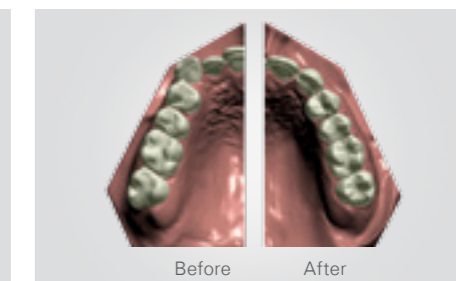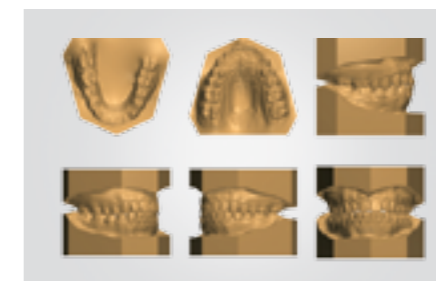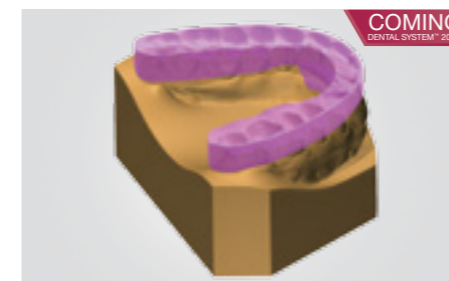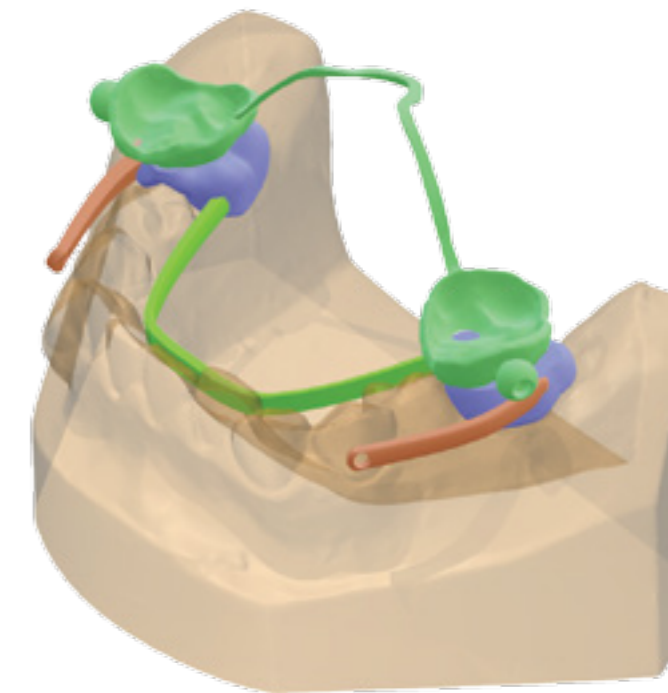
Cost-efficient Splint module
Splints represent an attractive business model for labs seeking to expand their business with high volume products that are closely related to their existing offerings. Get a light version of Appliance Designer™ that is optimized for fast and easy design of splints, nightguards, and protectors.

### Provide Digital Study models as a new service
Create high-quality digital study models, including virtual bases, in an open format. Digitally capture plaster models or physical impressions using your 3Shape dental scanner or import scans from 3Shape's TRIOS® intra-oral scanner for orthodontics.

Complete treatment planning
Offer additional services with OrthoAnalyzer™. Perform full treatment planning with virtual setups. Provide full treatment simulations with tools for segmentation, tooth movements and constraints, extractions and inter-proximal reduction, and articulators to evaluate treatment options.

Be more competitive with fully automated manufacturing

3Shape CAMbridge™ automatically prepares the lab's digital designs for manufacturing using the material and corresponding manufacturing equipment selected in the Dental System™ order. CAMbridge™ not only reduces manpower and skill requirements, but also improves material utilization and significantly increases manufacturing capacity with parallel processing of multiple items.
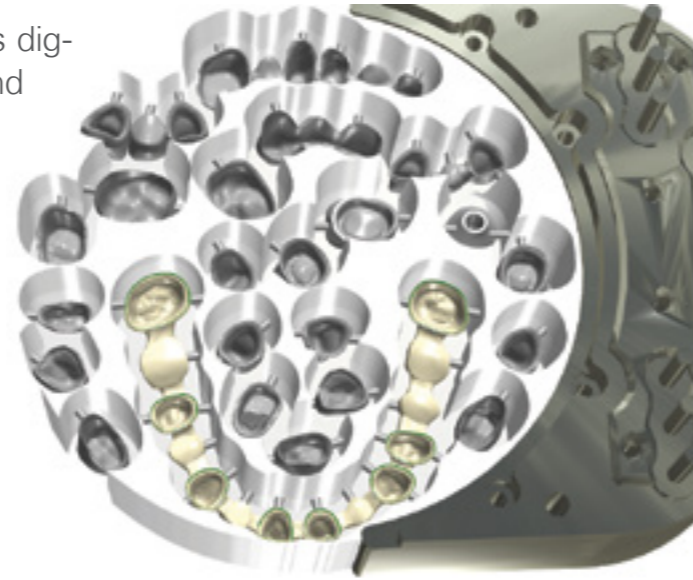
CAM software with 5-axis milling strategies

Get fast processing, razor sharp margins and perfect fits while reducing the need for manual finishing. Apply milling strategies for all relevant materials and dental indications using glass ceramics, Zirconia and more, with support for up to 5-axis continuous machining. Full support for STL files.
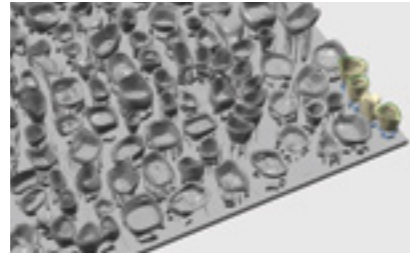
Optimized for wax printers and model making machines

Automatic preparation includes optimal placement, orientation, support generation, order management and communication with the machine. Adaptive grouping for automatic clustering of cases, and groups can be defined by name or clinic. Configuration rules automatically group items on the build platform with optional printed boundaries for easy identification.
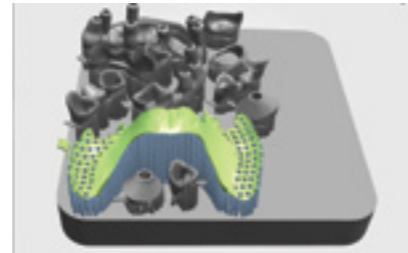
Automated preparation for Laser sintering machines

Includes optimal placement (multiple plate sizes included), unique support and bars generation, slicing&hatching and ID tags. The unique support structure minimizes warping during a subsequent sintering process, yet is easy to remove. Plan multiple jobs in parallel and distribute calculation to a slave machine for faster processing.

Extensive range of input and output options

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.
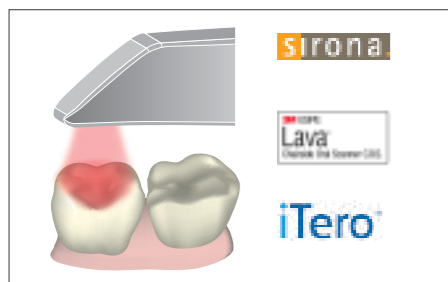
3rd party digital impression scan import

3Shape's Dental System™ supports the import of scans, margin lines and order information from intraoral scanners such as Sirona CEREC, Cadent iTero and 3M Lava Chairside Oral Scanner. Imported scans can be used for restoration modeling without constraints on the manufacturing output.

Quickly prepare your crowns for manufacturing

Integrated as the last step in the design workflow - add the sprue, automatically place your block, and directly start your milling machine. Simultaneously position all crowns optimally in relation to multicolor Zirconia or multicolor blocks for realizing maximum esthetics across all crowns.

Send to manufacturing
- widest integration and flexibility

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. Dental System™ output can be received directly by all open milling centers.

Your Notes

3Shape world map

3Shape has firmly established its position as a leading industry pace-setter for breakthrough developments in 3D scanners and CAD/CAM technologies. More than 300 employees and over 140 developers work daily to bring 3Shape's innovative solutions to dental professionals worldwide. With Dental System, 3Shape now brings its vast expertise and innovation power directly to dentists. 3Shape is a global company and its offices span the world with presence in Europe, Asia and the Americas.

3shapedental.com

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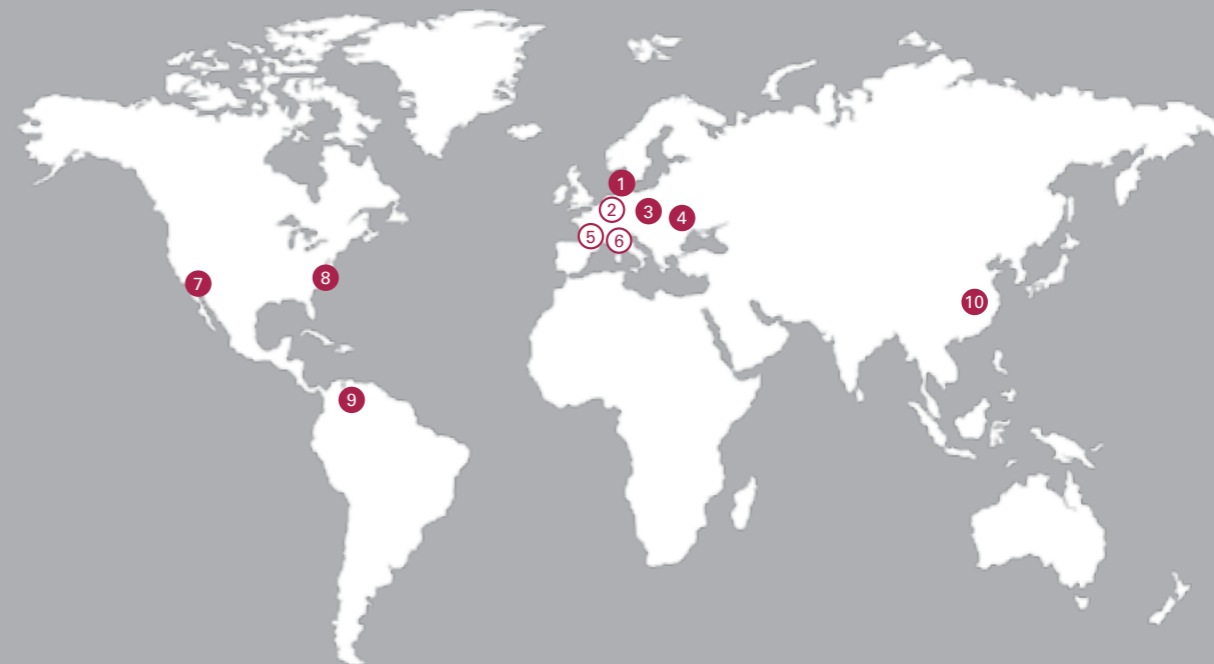
1 3Shape Copenhagen Headquarters
Training, support, hardware service, development, sales

2 3Shape in Germany
Training and support

3 3Shape Poland
Training, support, hardware service, production

4 3Shape Ukraine
Training, support, development

5 3Shape in France
Training and support

6 3Shape in Italy
Training and support

7 3Shape US - West Coast
Training, support, hardware service

8 3Shape US - East Coast
Training, support, hardware service, business development

9 3Shape South America
Training and support

10 3Shape Asia
Training, support, hardware service business development

● 3Shape office

○ 3Shape presence

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