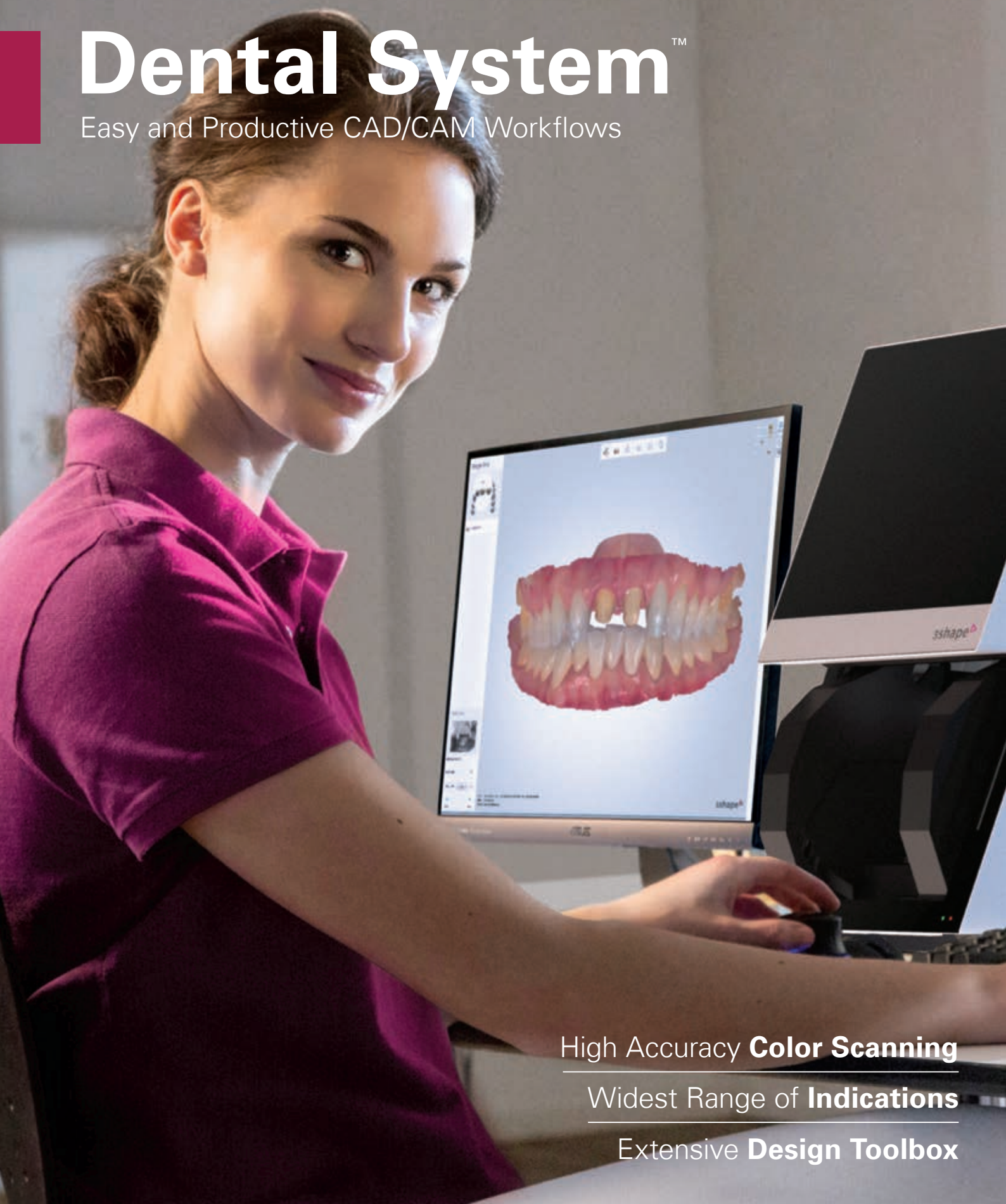# Dental System™

Easy and Productive CAD/CAM Workflows

3shape

High Accuracy **Color Scanning**

Widest Range of **Indications**

Extensive **Design Toolbox**

Technology designed the way you work

Table of Contents

Easy and productive CAD/CAM workflows for dental professionals

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 widest 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™ 2015 brings labs new opportunities for expanding their business, increasing their productivity and growing their customer base.
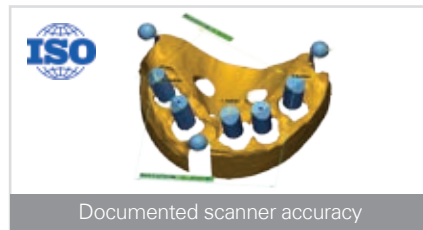
Dental System™ provides 3D scanning, CAD modeling, order management, intraoral scanning, dentist-lab communication, and more.

Dental System™ is an open and flexible system that interfaces to essentially all manufacturing equipment, libraries, and materials.

Highlights in Dental System™ 2014 and 2015

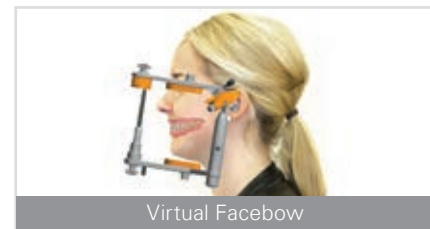|		
D900L	Documented scanner accuracy	Optimized user interface
TRIOS® for labs	Signature Libraries	Virtual Facebow
Customized abutment attachments	Implant Studio™	Splints and impression trays
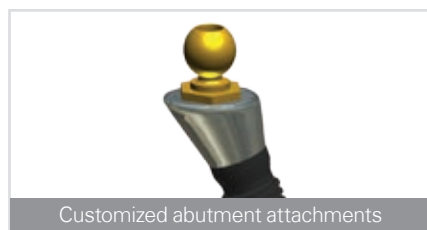
The full digital service lab

Digitization of the dental lab industry is progressing 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 with minimal 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

" Today 3Shape already provides us with a predictable and efficient digital workflow without any limits! Now we are also working with digital impressions and there's no telling how far this digital evolution will take us "

Ron Schouten
Lab owner, Schouten Tandtechniek
The Netherlands

" 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 DSG
USA

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 in a competitive market. Here's how …

Fully integrated scanners with documented accuracy
3Shape's user-acclaimed scanners and CAD software are designed together to provide high speed, easy and productive workflows, and unique tools.

Intuitive CAD design and more indications
Dental System™ offers the market's widest range of dental indications and an extensive design toolbox.

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

Market leading innovation power and dental expertise
400 3Shape employees including more than 175 full-time developers work daily with dental technicians in the field to create solutions matched to real lab needs.

Unlimited upgrading through LABcare™
New functionality, added libraries, and beneficial interfaces are integral parts of your Dental System™ subscription, ensuring that you get a long-term solution.

Providing local support and knowledge
LABcare™ also gives users access to 3Shape's worldwide network of authorized support and training experts - all backed by over 50 3Shape in-house trainers and support staff.

> 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,
Diplomate American Board of Prosthodontics,
Madison Ave. New York

The most intuitive workflow ever

Dental System™ provides a whole new user experience through optimized workflows, a redesigned user interface and enhanced user-friendliness ensuring an extremely intuitive operation for both new and experienced users.

NEW Order Overview
Always shows the active tooth that is being designed.

Workflow bar
Intuitively guides you through the major design stages.

Visualization sliders
Turn 3D elements on/off for ideal viewing as you design.
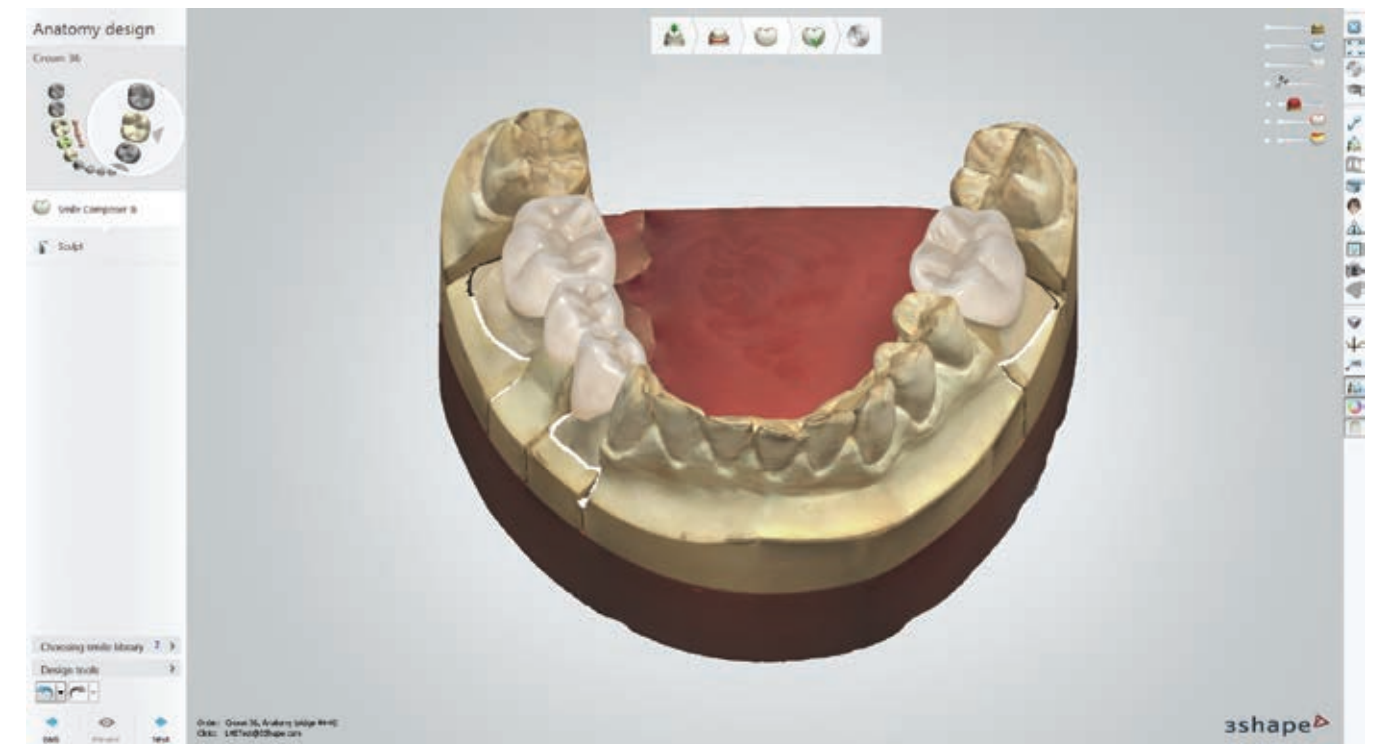
Design tools and sub-steps
Access powerful tools. Sub-steps guide you through designing the specific indication.

NEW "Next" and "Back" Button
Easily navigate back and forth between design steps.

NEW "Basic" and "Expert" modes
Adjust complexity of workflows and tools according to needs, software skills and experience.

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.
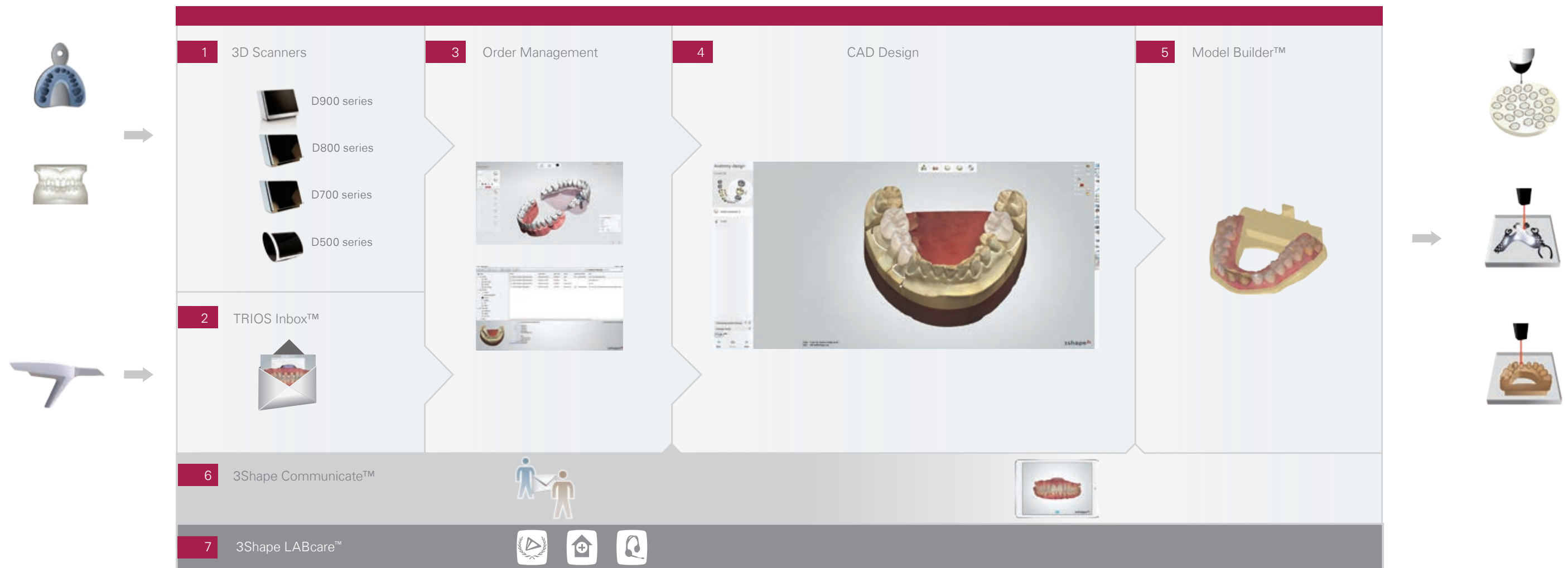
4A. Boost Crown and Bridge productivity
- Copings
- Bridge framework
- Full anatomy crowns and bridges
- Inlay/onlay/veneers

4B. Advanced indications and new services
- Multilayer bridges
- Post & Core
- Telescopic Crowns
- Digital Temporaries
- Virtual Diagnostic Wax-ups
- Customized Abutments
- Implant Bars and Bridges
- Implant Studio
- Denture Design™
- Removable Partial Design
- Splits and trays
- Orthodontic appliances

4C. Extensive ToolBox
- Smile Composer™
- Simultaneous Upper/Lower
- Mirror and copy teeth
- Dynamic Virtual Articulators

1 3D Scanners	**3** Order Management	**4** CAD Design	**5** Model Builder™

D900 series

D800 series

D700 series

D500 series

2 TRIOS Inbox™

6 3Shape Communicate™

7 3Shape LABcare™

1. A scanner for any lab
Model scanning, impression scanning Multi-Die scanning, color texture scanning and 5 MP for bar accuracy.

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

3. Manage orders
Systemize case and production information, search, archive, and share.

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

6. Communicate when convenient
Share 3D designs and discuss cases online with dentists.

7. 3Shape LABcare™
Expert training, unlimited upgrades, and online support.

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.

Extend your range of indications with Add-ons

3Shape offers Add-ons covering advanced indications and workflows such as Model Builder™, Denture Design™, and Abutment Designer™.

LABcare™ with every Dental System™ subscription

LABcare™ provides training, upgrades and support to ensure you get the most out of your lab solution.

Pay-per-design with CAD points

Enjoy a wider range of indications with a minimal up-front investment. Applies for most 3Shape Add-on modules.

Dental System™ Full Contour	Dental System™ Standard	Dental System™ Premium
A light version of Dental System™ containing indications and tools for labs which primarily focus on fully digital crowns.	A cost-efficient solution with the basic indications needed in professional labs of any size or budget seeking an easy entry into CAD/CAM.	The complete CAD/CAM dental lab solution package containing the widest range of indications, advanced design tools, and service options.
• Full crowns, bridges, and more • Advanced sculpt toolbox and virtual articulation • Upgradable to Dental System™ Standard • Includes Communicate ™, TRIOS Inbox™ and more.	• All the basic indications • Advanced sculpt toolbox and virtual articulation • Upgradable to Dental System™ Premium • Includes Communicate ™ , TRIOS Inbox™ and more.	• Full range of indications • Complete range of advanced tools & attachments • Also Real View™ Engine with 2D image overlay • Includes Communicate ™ , TRIOS Inbox™ and more.

*Contact 3Shape or your reseller for complete package descriptions

Backing users with care, technology, and expertise

LABcare™ is an integral part of Dental System™ and 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, integrated Training Center, instruction videos and manuals. Over 20 in-house training specialists work daily to ensure that users become familiar with all their system's features, 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, and supplemental upgrading with extra features, more libraries, and new validated interfaces.
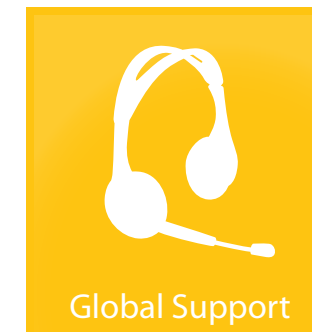
Global Support

LABcare™ ensures rapid assistance in your local language and time zone. Primary local 1st line support is provided by certified 3Shape representatives. Behind them stands 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.

The Order Manager maximizes productivity and case control

Dental System's™ Order Manager provides an intelligent database, workflow guidance, and communication tools for complete case handling. It binds together all information about your cases and allows you to receive digital impressions, create orders, work with 3Shape Communicate™, import 3rd party scans, and send designs to manufacturing centers. Technicians can share cases and work in parallel using multiple PCs, allowing whole new levels of productivity and utilization of lab resources.
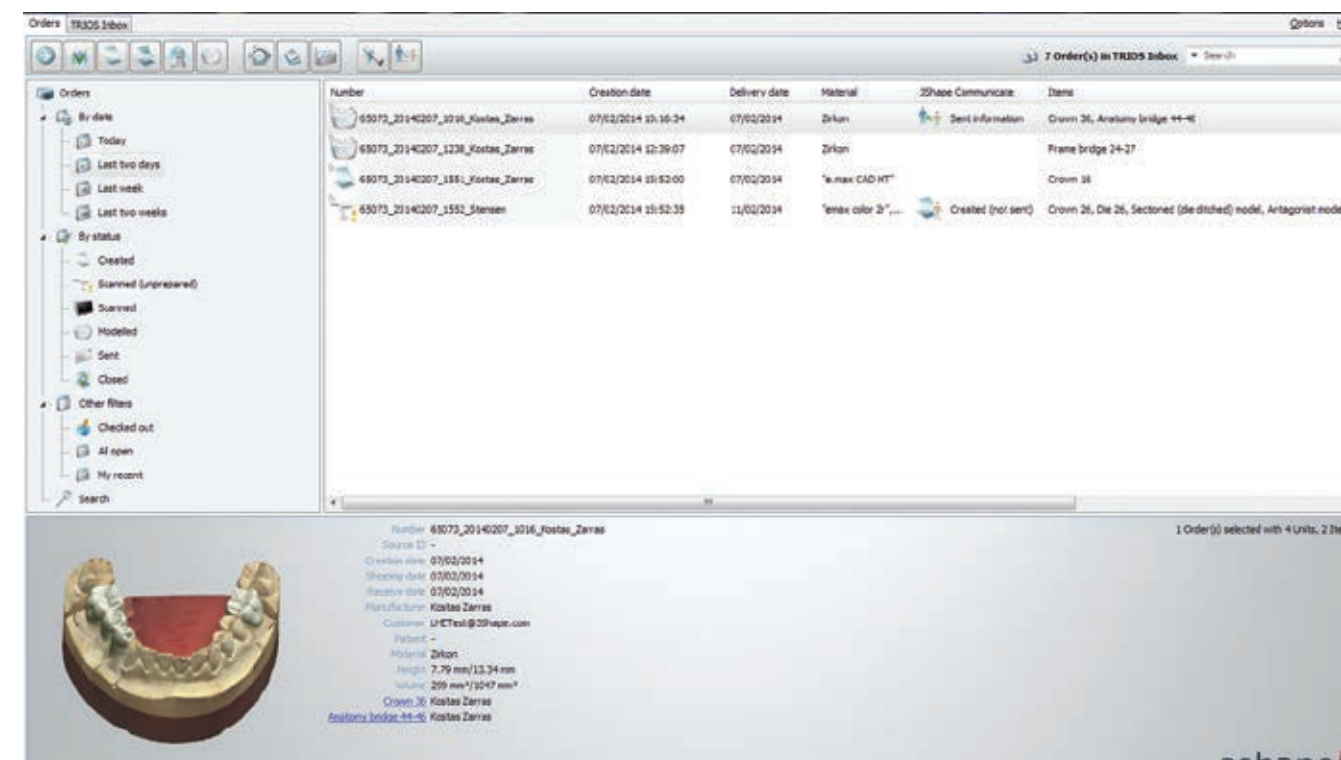
Intuitive workflow guidance
Let the software guide you through the workflow for the specific case. The status icon is continuously updated so all technicians can follow case progress.

Complete order overview
All orders are securely managed and quickly accessible in the database. Easily find details for any case using advanced search functions. Save custom search events for later use.

NEW Integrated training center
LABcare™ gives you access to webinars, training videos, manuals, trial cases, FAQs, What's New descriptions, and more.

NEW New intuitive 3D Order Form
Select the various restorative indications to visualize them on a full-jaw 3D model. The transparency effect lets you see a 3D visualization of each indication layer.

NEW Create orders for all indications
Supports creation of all Dental System™ indications including the newly added design opportunities - Splints, Implant Planning & Surgical guides, and Customized Impression Trays.

Open to all libraries and materials
Freely import, update, and work with Dental Systems's™ wide range of materials, libraries, implant systems and manufacturers.

Wide range of 3rd party integration
Import 3rd party intraoral scans directly and easily select among essentially all types of manufacturing equipment, including 3-5 axis milling machines, wax printers, laser sintering machines and digital model making machines.

Multiple workstations for ultimate productivity
Set up multiple workstations to share cases between technicians and their different areas of expertise. Users can access the common database to create orders, scan, design, and review cases in parallel.

Check-out orders and work offline
Bring cases with you and design from home, on-the-road, or anywhere. Orders can be checked out and locked for modification until checked in again.

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 impressions 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.

NEW D900L Scanner

Building on our proven high-end scanner technologies, the new D900L brings together RealColor™ technology, high speed, implant bar accuracy, and maximized interior space in a small footprint scanner.

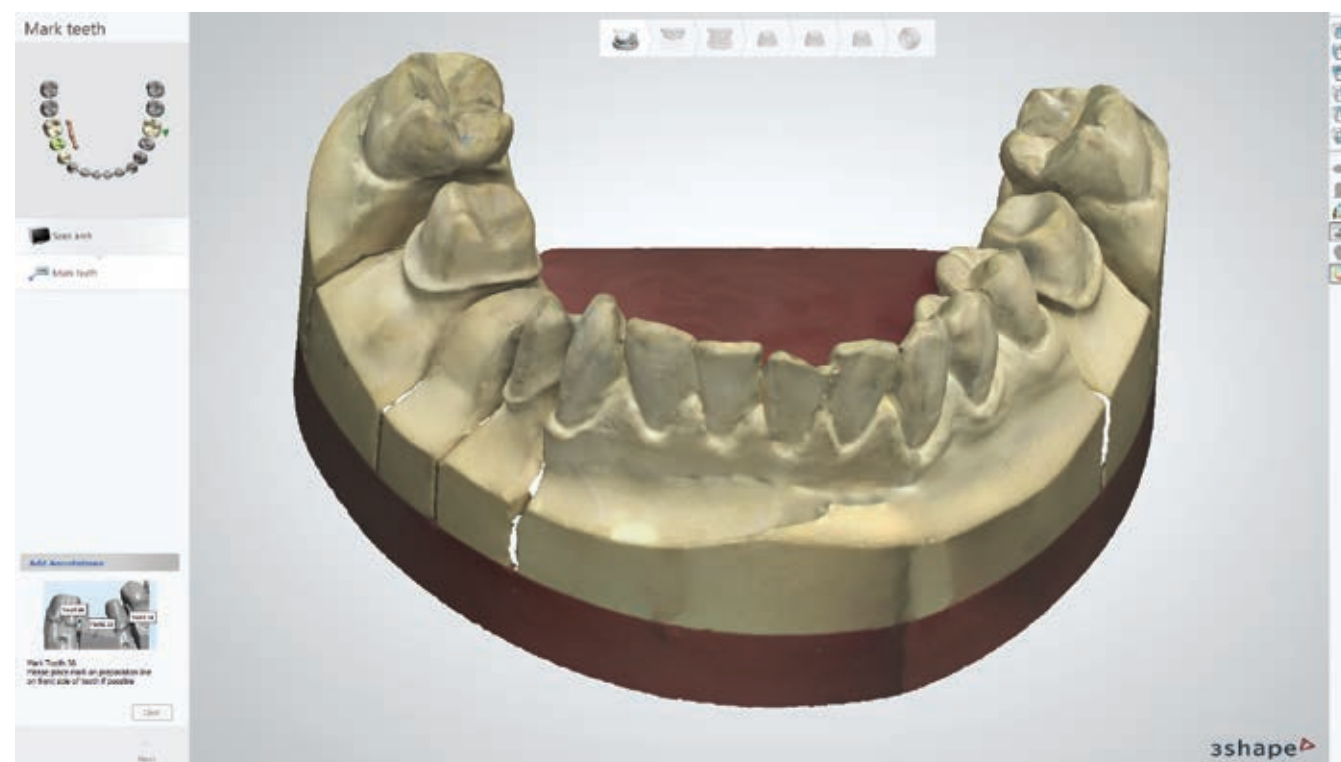**Scanning has never been easier**
New and intuitive scanning user interface.

Workflow guidance as you scan
New workflow progress bar takes users through each scanning step.

NEW Quickly jump between steps
Avoid time-consuming post-processing of scan data between each stage.

Expanded space for larger models
Scan larger objects including mounted gypsum models, large impression trays, models with attached articulators.

Bring colors into the design
RealColor™ Technology captures all textures and colors on the model.

Designed for high speed
Enjoy astonishing scan speeds accelerated by optimized and intelligent 2D image processing algorithms.

4 × 5.0 MP Cameras

NEW Optional accelerated speed mode
Achieve extra-high speed on the D800 and D900 scanners through Intelligent Image Processing.

Unique RealColor™ technology
Scan in color and capture your color markings on the model.

COMING Post-processing while you scan
Save time - start the next scan directly without waiting for post-processing.

Accurate scanning with 4 x 5.0 MP cameras
Unique optical system ensures high scan speeds, powerful color capture, enhanced details, implant bar accuracy.

Save time by skipping the bite scan
With new Auto Occlusion™ technology, technicians only need to scan upper and lower and the system automatically calculates occlusion.

Transfer exact articulator positions
Optimized technology now makes it even easier to transfer the exact jaw positions from the physical articulator into the software.

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
The D700 is 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.

D900 series
Four high-res 5MP cameras and blue LED speckle-free technology provide extraordinary speed and highly accurate color scanning. Perfect for large high volume, productive-orientated labs.
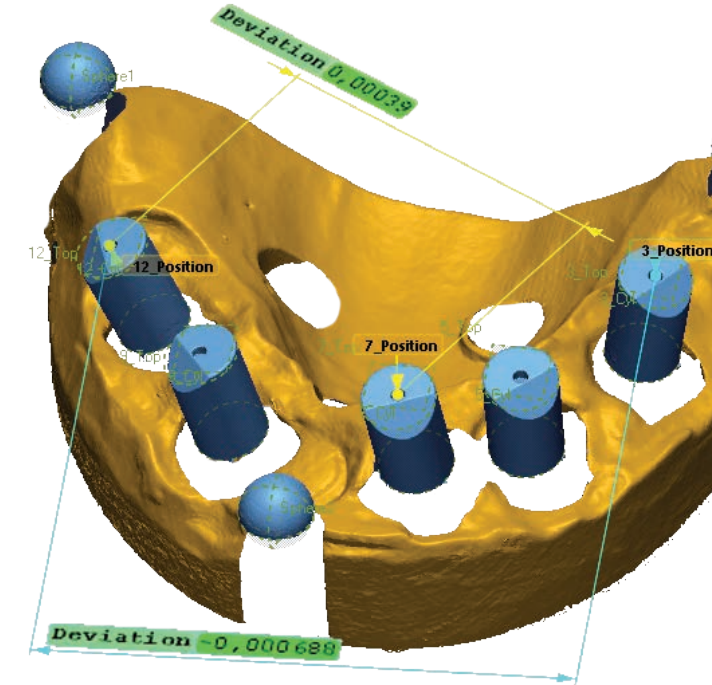
NEW Documented scan accuracy – better than 10 microns

While most dental professionals would agree that scan accuracy is vital for the quality of restorations, it remains difficult to compare accuracy performance due to diverging measurement methods. When evaluating accuracy claims, it is imperative to understand the measurement methods behind them. At 3Shape, we measure, control and document scanner accuracy using well-defined standards and metrology procedures.

	D500 series	D700 series	D800 series	D900 series
Scanner models	D500	D700, D710	D800, D810	D900, D900L
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 Crown and Bridge (ISO 12836)*	10 microns	10 microns	7 microns	7 microns
Accuracy Implant bars*	-	12 microns	8 microns	8 microns
Gypsum model scanning	✓	✓	✓	✓
Impression scanning	✓ (Add-on)	✓ (Add-on)	✓ (Add-on)	✓ (Add-on)
Multi-Die scanning	-	✓ (710 models)	✓ (810 models)	✓
Expanded interior space	-	-	-	✓ (D900L models)
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)	80 sec (100 sec)	80 sec (100 sec)	50 Sec (70 sec)
Typical software package**	Dental System™ Standard / Full Contour	Dental System™ Premium	Dental System™ Premium	Dental System™ Premium

* Validated and documented in accordance with ISO 12836 and with specially designed implant objects
** The availability of specific configurations depends on country and reseller

Tested against the ISO 12836 standard
3Shape's high scan accuracy is validated in accordance with ISO 12836. The standard specifies a test protocol for the assessment of crown and bridge accuracy in dental scanners using specially designed and validated ISO objects.

Proven accuracy for implant bars
Implant bars and bridges represent the most accuracy-demanding indication. Complementing the ISO standard, 3Shape additionally validates scan accuracy using specially designed implant objects. All objects are produced using temperature stabile materials, and are reference-measured by accredited metrology experts.

Designed and produced for accuracy
3Shape considers accuracy in all aspects of the scanner's design e.g., fine mechanics, optics, and construction materials. The scan software employs advanced calibration algorithms and the unique user - calibration option ensures accuracy even with radical temperature changes. All scanners undergo strict quality control before shipping.
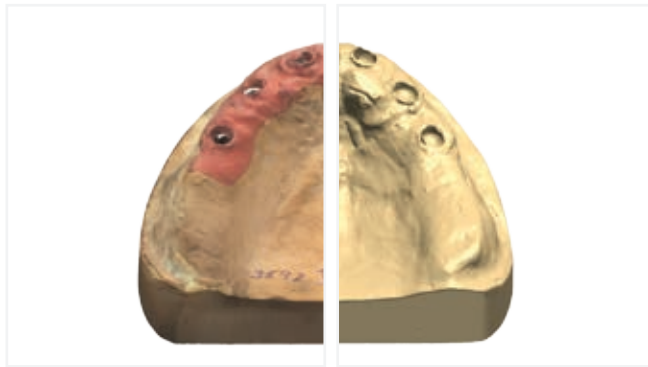
RealColor™ technology captures complete textures and colors

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 that indicate different design details. *Patent pending.*
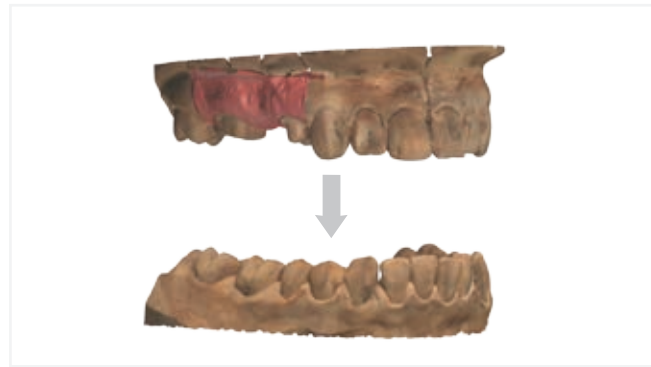
NEW Skip the bite scan with Auto-Occlusion™ technology

Scan upper and lower models separately and the software automatically determines correct occlusion - bypassing the need for the additional bite scan. Simply mount your models in an articulator or use 3Shape's special fixture to accurately align lower and upper models before scanning. Works with all current 3Shape scanners and any articulator including Vertex. *Patent pending.*

COMING Add scans from any angle

Based on 3Shape's patented Adaptive Scanning technology, users can now select uncaptured areas in difficult regions for rescanning, such as a contact point on a neighboring tooth. The system automatically finds the perfect angle and model position to optimally capture the selected area.

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 in the D900 series optimizes speed and performance without compromising accuracy.

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 include Adaptive Impression scanning – offering labs accurate impression capture and a future secure scanner investment.

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 near 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 ensures 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.
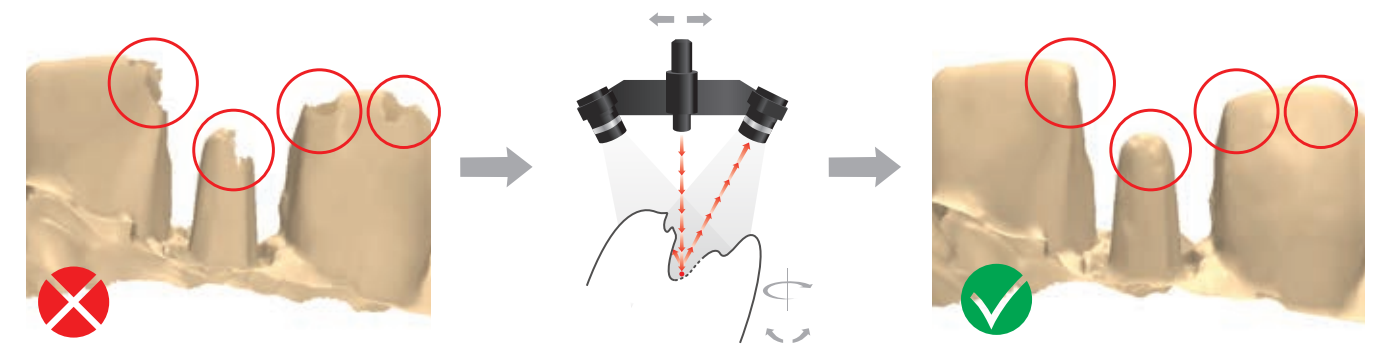
Before Adaptive Scanning

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.

NEW ◥ Get a mobile scanner for scanning models, impressions and patients

Many dental labs today are using the 3Shape TRIOS® digital impression solution as a portable and versatile scanning device. The hand-held scanner allows technicians to quickly and conveniently scan gypsum models, triple tray impressions, or complete digital impressions from patients referred to the lab. The TRIOS® is a perfect solution for labs that wish to offer dentists mobile digital impression taking services and for other labs that maintain close contact with patients such as practice labs or labs in close vicinity to a clinic.

Open your doors for TRIOS® scans and expand your business

More and more dentists are realizing the benefits of digital impressions and choose TRIOS® next generation technology as their entry into the digital arena. The TRIOS® digital impression solution makes it easy for dentists to accurately capture and send the complete intraoral situation directly for expert design and manufacturing at the lab. The latest TRIOS® makes it even easier for labs to work with digital impressions and design high quality restorations.

Get your lab ready for TRIOS®
See 3shapedental.com/trios-ready for more information.

> Since we opened our doors for TRIOS® impressions, we have expanded our customer base by 25% within less than one year

Sune Schmidt,
Lab Owner, Schmidt Dental
Horsens, Denmark

NEW Optimized workflow for digital impressions

The "Prepare Scan" step is fully integrated within the CAD design workflow. Technicians start by modeling the crown before optionally designing the lab model in Model Builder™. The margin line is defined only once and the digital model is automatically cut to fit the CAD design of the corresponding restoration, e.g. the crown or abutment design.
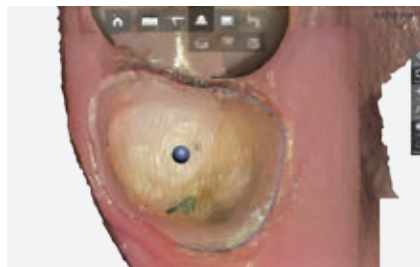
NEW Opening the way to model-free crowns

The latest TRIOS® scanner delivers optimized geometry capture around the margin line, plus HD photos for close inspection of details. Dental System's™ new margin line tool allows technicians to "snap" the line to a clear edge on the 3D model and make adjustments during design.

NEW Receive shade measurements in the digital impression

The new TRIOS® scanner measures shades during scanning and the shade data comes to the lab as an integrated part of the digital impression. Technicians can view the dentist's shade choices, and analyze all shade data further in the lab.

Strengthen relationships with your 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
3Shape Communicate™ lets labs and dentists exchange and discuss cases, while reviewing 3D designs online. Use Communicate™ with all your cases, and securely access the Communicate™ cloud directly from Dental System™, TRIOS®, your smart phone, or a web browser.

Expand your business with TRIOS Inbox™
TRIOS Inbox™ enables labs to receive digital impressions from any dentist that is using TRIOS®. Establish Communicate™ connections to your dentists and start designing their cases immediately. TRIOS Inbox™ is included in all Dental System™ solution packages.

NEW **Send design and margin line proposals for approval**
Send your margin line proposal to the dentist for immediate approval, and the dentist can return comments and 3D annotations through Communicate™. Upon completing designs, the system automatically transmits the 3D design and screenshots to the dentist for final case approval.

NEW Available on the **App Store**
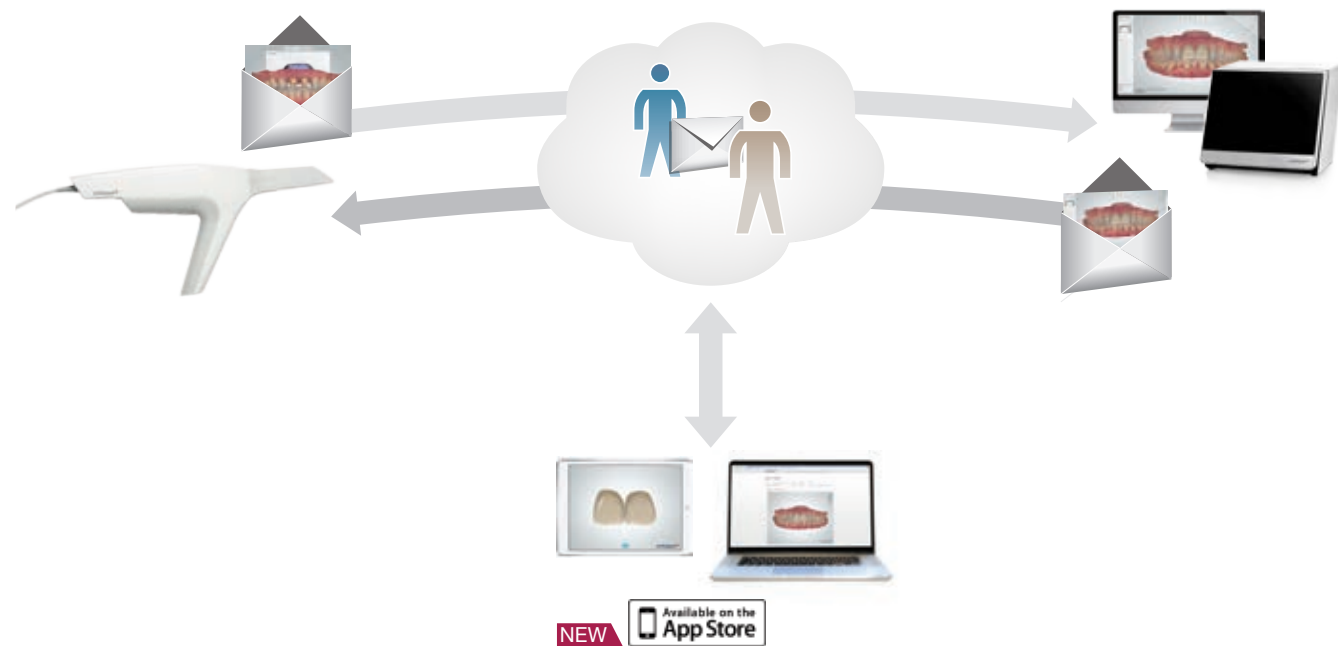
Extensively used in labs all over the world

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. In close collaboration 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.

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.

Import scans from
TRIOS® and 3rd parties

Automatic occlusal
plane detection
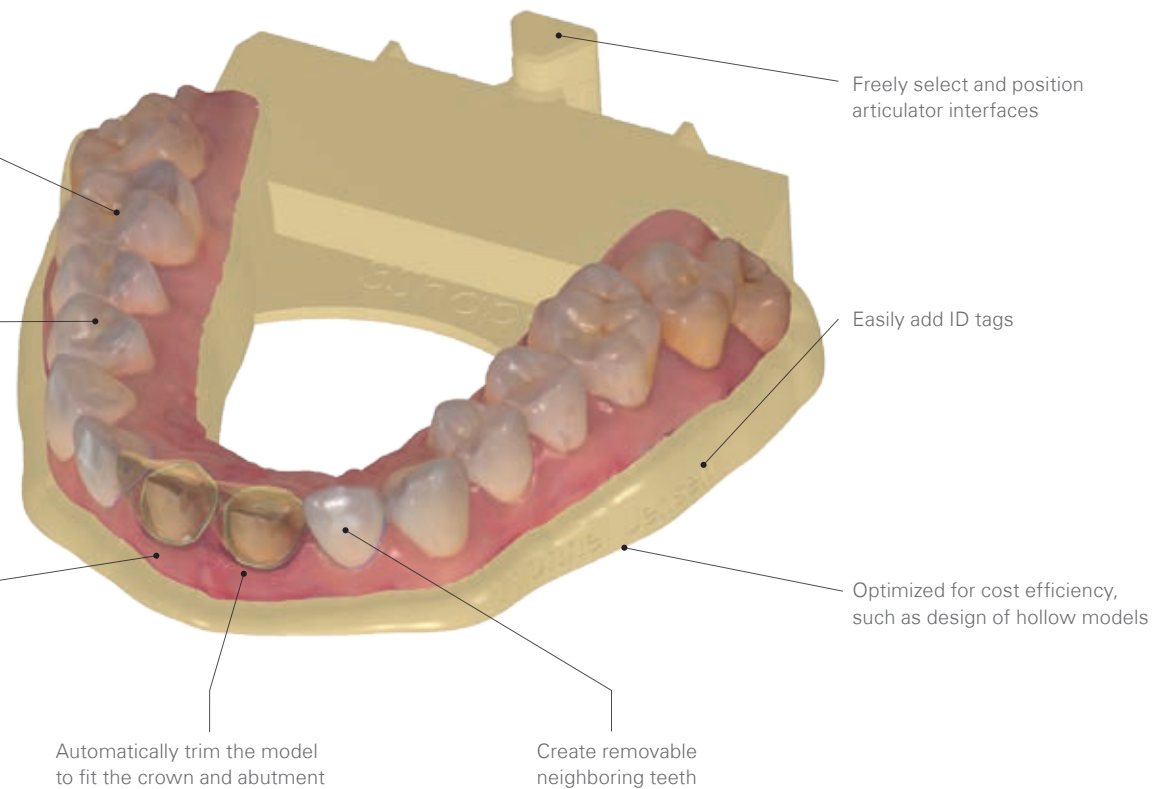
Design implant models
with soft tissue

Automatically trim the model
to fit the crown and abutment

Create removable
neighboring teeth

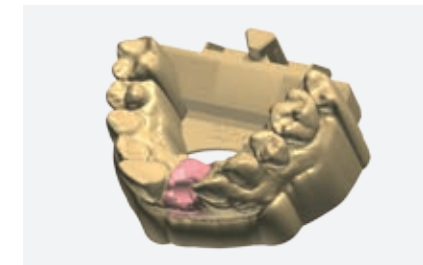Freely select and position
articulator interfaces

Easily add ID tags

Optimized for cost efficiency,
such as design of hollow models

NEW 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.

COMING Cost optimized designs
Model Builder™ is designed to minimize production costs. Models are created as hollow structures, with low height, reduced wall thickness, and a minimal base to decrease volume, save materials and allow for fast printing.

Flexible articulator interfaces
Select the right articulator interface and add it to the design so the model can be used with a physical articulator after manufacturing. Use 3Shape's articulator interface or select among various pre-installed interfaces.

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 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.

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.

NEW Skip the bite scan

Save time by skipping the bite scan and take productivity to new heights. New scanning technologies and workflows enable technicians to bypass the bite scan. Use upper and lower scans only when designing frameworks and copings.
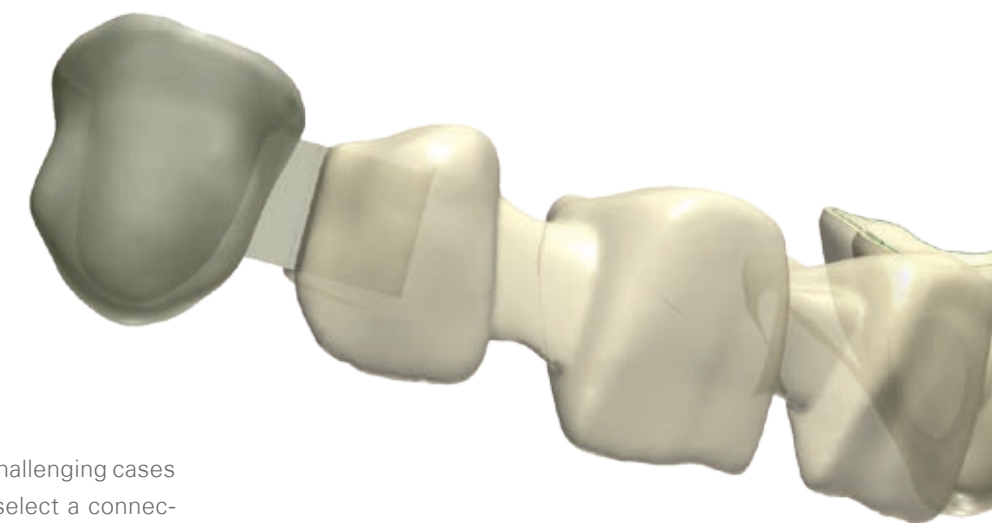
Color Texture - Bring your hand-drawn margin line into 3D

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.

Split long-span bridges into two pieces

This tool allows you to realize the bridge in challenging cases with different insertion directions. Simply select a connector and let the software automatically split the bridge at that point using matching male and female slide attachments, and adjust each insertion direction separately.

Total Time for a Coping: < 2 min.

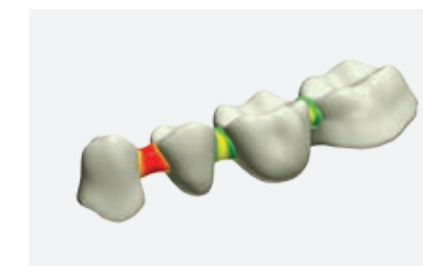| Order Creation	Die Positioning	Die Scanning	Coping Modeling
10 Sec	15 Sec	19 Sec	40 Sec

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.

COMING Automatic coping and framework design

Complete your scanning and then start the fully automatic process that designs a standard or anatomical framework without further user interaction. Review with option to easily modify the final result. Support for Multi-Die scanning.

NEW 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.

Advanced connector design

Enjoy 3D controls for designing the connector, 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.

Meeting the future of Full Digital Crowns

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

Achieve high esthetics with Smile Composer™ in no time

Create highly esthetic full anatomy bridges by designing full smiles in one go. Morph a whole set of teeth as a single unit, and move Upper and Lower designs simultaneously. Like no other, this unique tool both saves time and enhances esthetics for advanced bridge cases and full dentures.

Advanced Sculpt tools for design freedom

Apply your artistic touch with the powerful Sculpt Toolbox that gives technicians the freedom to form the crown exactly as they see fit. Includes the virtual wax knife, free-form morphing, cut-to-neighbors, and anatomy preserving cut-to-antagonist.

NEW Multilayer design for pressed and glass ceramics

Highly productive design of bridges for pressing, or combinations of milled glass-ceramics and Zirconia. Automatically split full anatomy designs into two true and entire parts, completely without undercuts or lost areas. Obtain a perfect match when the manufactured layers are reunited to reduce manual interaction and finishing.

Different restorations based on full anatomy design

Full crown

Anatomically correct coping

Cutback crown and lingual band

Multilayer crown
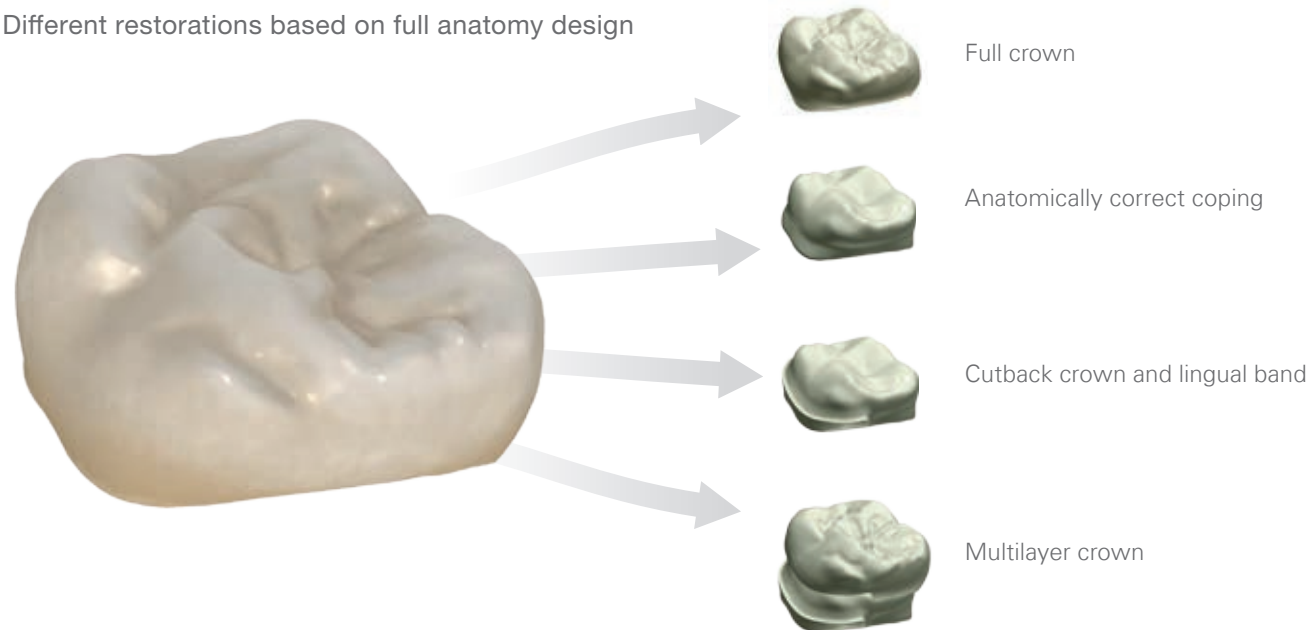
Jochen Peters

Matt Roberts

Nondas

COMING Exclusive Signature Libraries from renowned technicians

Enjoy highly professional anatomy libraries created by recognized masters of esthetic and functional morphology design. Dental System's™ Signature Libraries represent the accumulation of years of focused experience on obtaining beautiful results through thousands of cases.
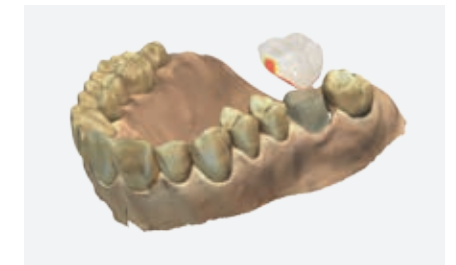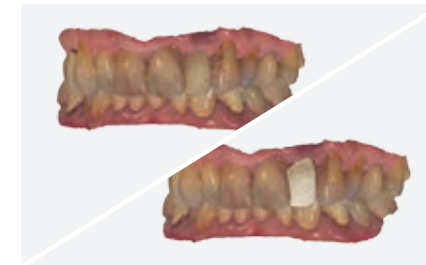
NEW Automatic design of full anatomical crowns and bridges

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

Mirror CAD design or morph to Wax-up

Apply Virtual Mirroring of a designed tooth to model the corresponding tooth with perfect symmetry and esthetics. Copy the anatomical shape from the opposing tooth in the scan or from the CAD design. With a single click, users can also morph the anatomical design to fit any wax-up or pre-preparation scan.

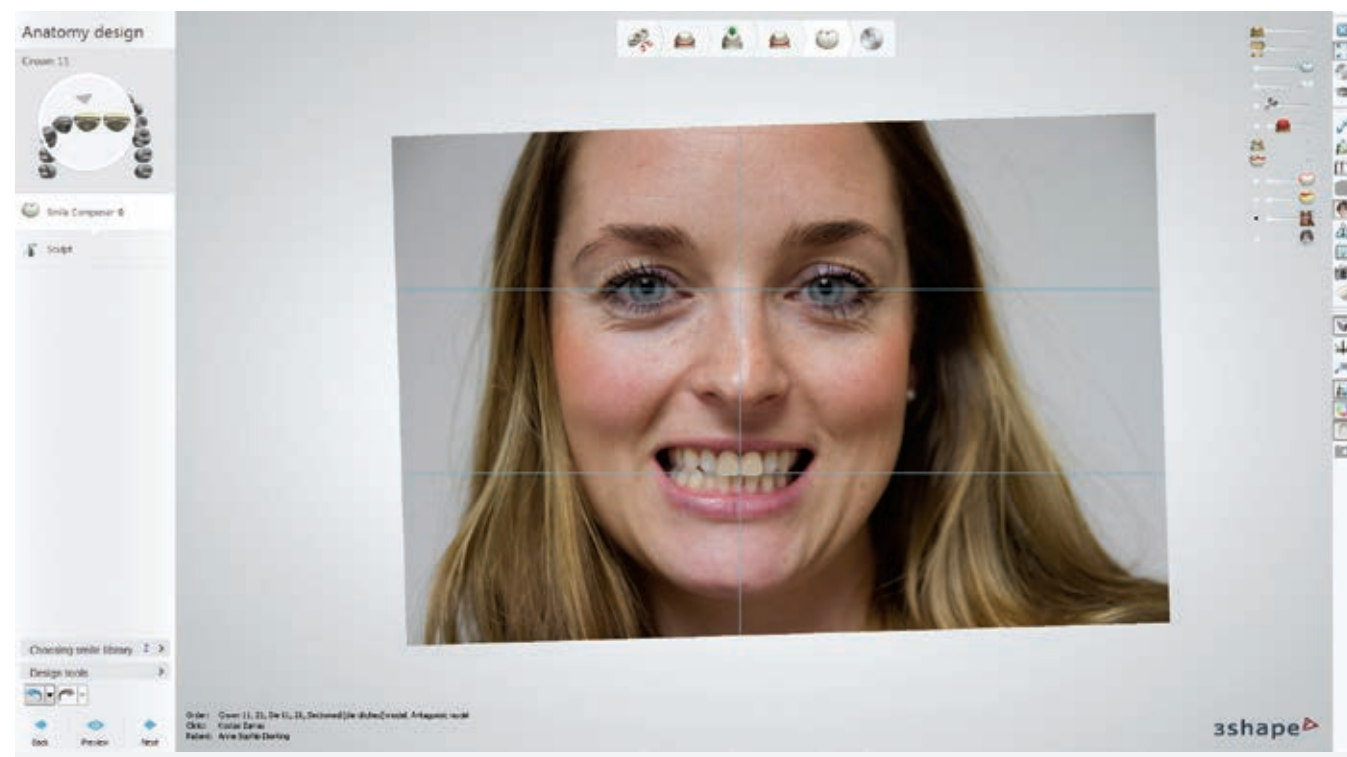### Sophisticated crown insertion tool

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 interproximal contacts.

Visualize cases in realistic shades and smiles

3Shape's RealView Engine™ gives users a range of tools for creating near photo-realistic visualizations of patient cases by bringing together the patient's face, 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.
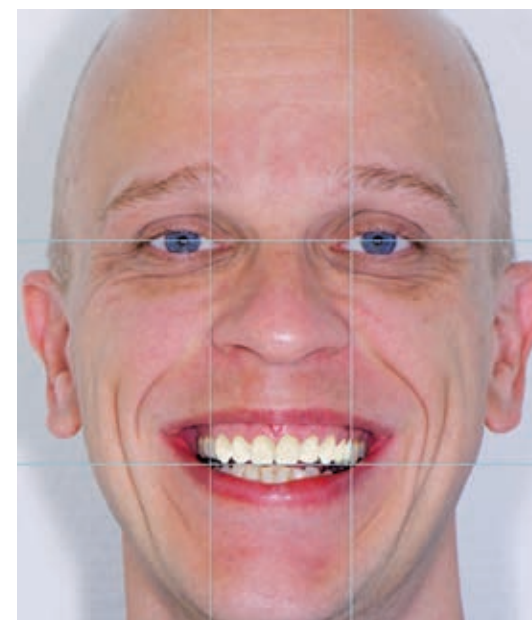
Easily add vertical and horizontal
design guidelines

Simply set four points to align the 3D
model and 2D image

See your 3D design in combination
with the patient image

Adjust shades in the design to match
existing teeth

NEW Design guidelines for optimal esthetics

Superimpose a patient's actual face image in the design process. Optimize esthetics and proportions by adding design guidelines directly on the 2D image of the patient's face, such as the center line, eye line, occlusal line, and more. Freely fade in- and- out between the image of the patient's teeth and your 3D design as you work.

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.

NEW Match colors to the patient's teeth

Choose from Dental System's™ range of smile libraries which include teeth color shading to visualize realistic designs. Optionally pick colors from the existing teeth and drop them onto the 3D design to create a near-natural visualization for the dentist and patient.

NEW Provide dentists and patients impressive design proposals

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.

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.

NEW Virtually raise the bite
Precisely raise the bite for cases requiring bite and jaw adjustments.

Automatically adapt occlusion
Based on recorded articulation movements, dynamically adjust occlusion with a single click.

NEW Incisal Plates on all articulators
New "Incisal Plate" functionality effectively guides the technician when designing large anterior cases.

Easily adjust articulator settings
The Virtual Articulator is an exact replica of your physical articulator with your familiar settings and adjustment options.

Automatic articulator movements
Play predefined motion scripts to automatically record the complete occlusal story.

Perfect function with Virtual Articulation Paper
Apply Virtual Articulation Paper and the Occlusal Compass to visualize contact points and color-map specific occlusion movements.

Work with your own articulator

COMING Virtual Facebow for patient specific placement of the model
In most cases, models are placed in the articulator using mid-values - potentially resulting in inaccuracies and poor function. Now Dental System™ gives technicians the option to place and adjust the model's position in the articulator according to a 2D profile image of the patient, improving fit and function of the final restoration.

NEW 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.

COMING Patient-specific jaw motions
Technicians can replay patient-specific jaw motions that were recorded previously using an electronic facebow. Alternatively, create and play predefined motion scripts that automatically run through Protrusion, Retrusion, Laterotrusion, Mediotrusion and Immediate Side Shift.
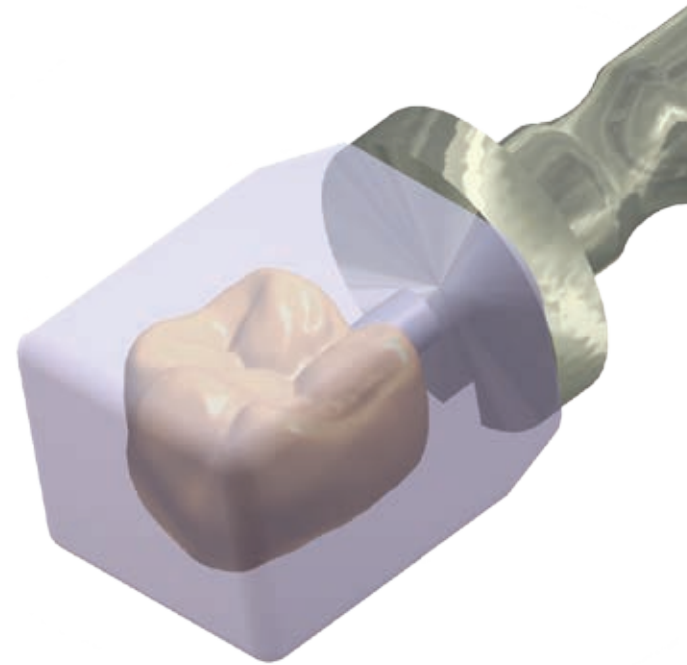
NEW Optimized workflows for model-free crowns
Model-free crowns are predicted to be the future norm for crown production in modern labs. 3Shape's advanced digital articulators and continuous technology developments are realizing easy model-free workflows and crown production based on intraoral scans and impression scans.

Embrace the full range of materials with CAD Blocks

Full anatomical monolithic restorations are increasingly playing a major role in the future of the dental industry - and CAD Blocks are key drivers for this development. Now as a new integrated tool in Dental System™, lab technicians can virtually position their designs inside one or more CAD Blocks before manufacturing. Includes support for a wide range of CAD Blocks and multilayer blanks.

Expand your range of indications

With the increasing availability of monolithic materials and cost-efficient milling machines, inlays, onlays and veneers become more and more attractive for labs seeking ways to improve their business. Automatic anatomy morphing and integrated design workflows with 3Shape's Smile Composer™ ensure superb esthetics, high-strength results, and highly productive design of inlays, onlays and veneers.

Automatically place designs in CAD Blocks

Automatically place and easily adjust the position of the crown using the integrated distance maps. Get immediate warnings if positioning violates minimum distances for edge, mandrel or sprue. Users gain full control over placement of the sprue and avoid improper placement in critical areas that can ruin esthetics and contacts.

CAD Blocks and blanks with multi-color layers

With multilayer blocks, the lab can easily align block layers across multiple crowns in order to achieve optimal esthetics. Match color transitions to the existing teeth-shades captured in 3Shape color scans, or to the designed neighboring teeth. This new feature supports both multilayer CAD Blocks and multilayer blanks.
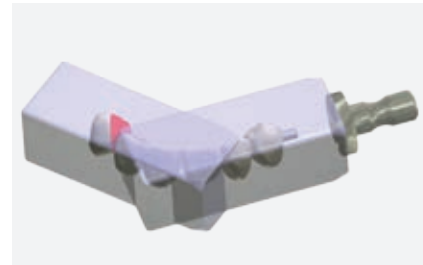
Cut long bridges to place in multiple blocks

When working with long bridges, it is now possible to split the bridge design for easy fitting into multiple CAD Blocks before manufacturing. The user sets a cutting plane for dividing the design, and the software automatically places the bridge sections within different blocks accordingly.

NEW Highly productive inlay and onlay design

Design optimal inlays and onlays with high esthetic results and minimum need for adjustments. New optimized algorithms automatically shape the inlay and onlay surfaces to the remaining tooth with smooth marginal transitions. An improved margin line tool accurately "snaps" the line to the margin edge.

Highly esthetic veneers

Combine Smile Composer™ with Dental System's™ automatic and free-form 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.
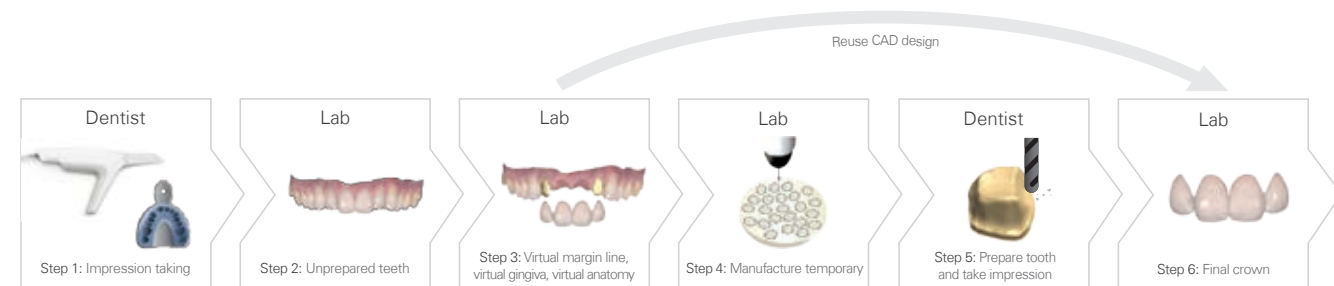
Sophisticated inlay & Maryland bridges

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 using Smile Composer™. Design inlay Bridges by combining multiple inlay designs in a single restoration.

Get an esthetic temporary in the shape of 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 and Virtual Gingiva tools with Smile Composer™ to design esthetic temporaries - often without pouring a gypsum model.

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. Labs can 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*

Before
after

Reuse CAD design

Dentist	Lab	Lab	Lab	Dentist	Lab
Step 1: Impression taking	Step 2: Unprepared teeth	Step 3: Virtual margin line, virtual gingiva, virtual anatomy	Step 4: Manufacture temporary	Step 5: Prepare tooth and take impression	Step 6: Final crown

Virtual Preparation and Virtual Gingiva

Optimized Virtual Preparation functionality ensures results that are in tune with the actual clinical situation. Digitally remove teeth and easily replace with smooth and perfectly formed Virtual Gingiva. *Patent pending*.

COMING Raise the bite using unique tabletop workflow

Take advantage of 3Shape's digital temporary workflow with the optimized Virtual Articulator to create temporary tabletops for raising the bite in bite correction cases. The new cut-to-teeth feature allows technicians to automatically create perfectly fitting tabletops on the original teeth.

COMING Cost efficient temps using digital molds

Design and manufacture a digital model of the digital temps combined with the remaining teeth. Manually create a silicone mold on the model so the dentist can create temps using injection. The mold can also be applied for accurate mounting of new temps.

Virtual wax-ups that smile

Use Smile Composer™ to create esthetic Virtual Diagnostic Wax-ups. Apply RealView Engine™ with patient face images and the color picker tool to construct highly 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.

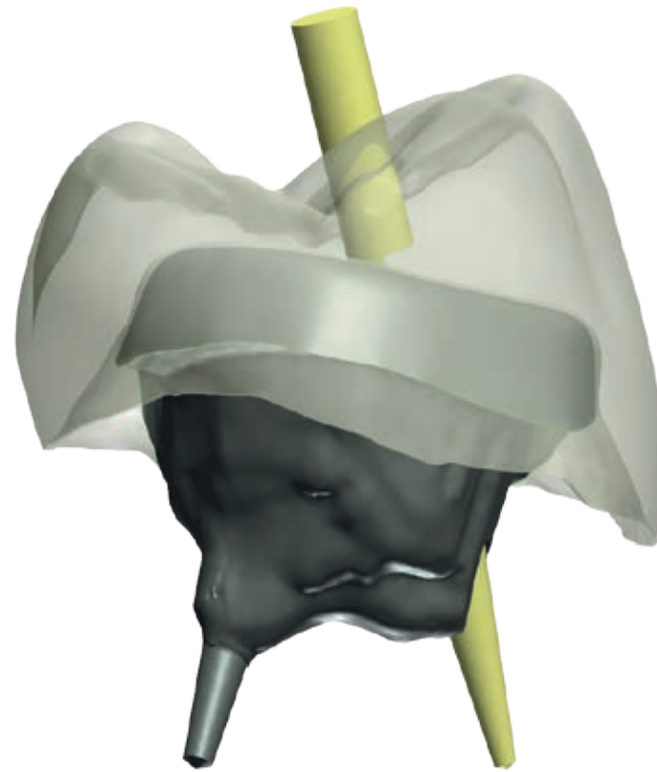### Reuse the temporary design for the final crown

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.

COMING Provide dentists with a physical wax-up

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.

Unique, fast, and full digital workflow

3Shape's unique 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 advanced primary and secondary telescope constructions for even complex clinical cases using flexible tools and attachments. Design the anatomy first to intuitively guide the telescope design, realizing optimal results in terms of space, functionality, and esthetics. Easily create attachment crowns and 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.

NEW Optimal designs based on the final crown – now with new tools

With new tools and enhanced design suggestion, it is now even easier to design the Post and Core - optionally based on the final crown's shape. Design Post and Core for standard crowns, single-piece retained crowns and anatomical single-piece retained crowns that are cutback for veneering.
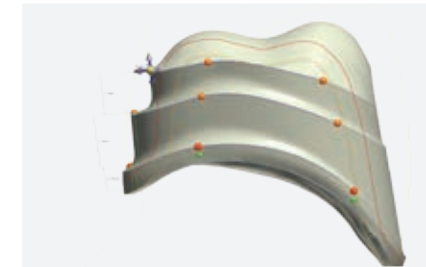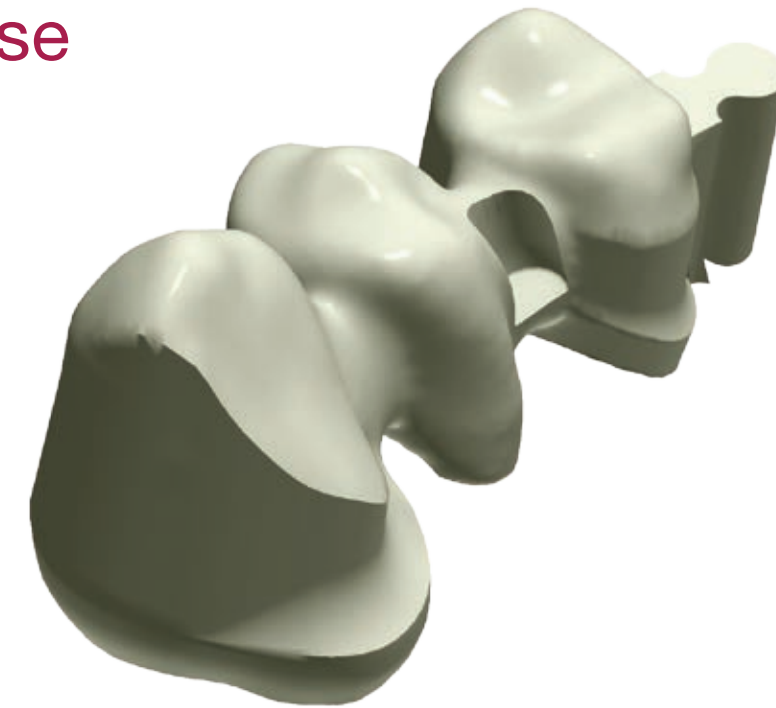
Supports multi-post cases and parallel core design

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.

Complete design freedom with flexible tools

Easily design and adjust telescope edge angles and shoulders. Model 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.

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 designs or apply accurate tooth reductions for hand veneering.

Customized Abutments
perfectly shaped to the anatomy design

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 as a natural extension of the crown. Simply model the anatomy first and create the abutment and emergence profile with smooth transitions and optimal esthetics.

NEW Auto-crown functionality
Design the anatomy layer using Auto-Crown functionality.

Flexible Sculpt Toolkit
Use free-form tools to shape emergence profile.

Shape abutment to the crown
Snap abutment margin to fit the anatomy design to smoothly connect anatomy and implant.

Extensive range of implant systems
open to both original and compatible-with implant system.

Design all layers simultaneously
Design all layers in a single workflow for optimal productivity and fit.

NEW Abutment bevel
Easily add abutment bevel to your design for optimal crown support.

Adjust to gingiva
Option to snap emergence profile to gingiva.

COMING Customized abutment attachments
New and unique option to design customized abutment attachments with optimal position and angle according to gingiva and denture shape. Design attachments in parallel for easy mounting with optimal retention of the denture. Freely select well-known attachment types from included libraries, and shape the emergence profile to optimally match the clinical case.

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.

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.
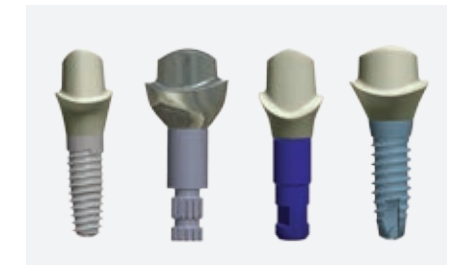
NEW Open to original and compatible-with implant systems

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 installed directly with Dental System™ for immediate use.

New systems are added continuously
See: 3shapedental.com/implant-systems

When accuracy and esthetics matter

Documented scan accuracy and flexible software tools allow technicians a to design sophisticated implant bars and bridges with the utmost precision. 3Shape's solution supports standard and free-form bar shapes for removable and fixed prosthesis, enables virtual design of gingiva and creation of any type of attachment.

NEW **Esthetic implant bridges with gingiva**

Dental System's™ anatomy first workflow lets you design implant bridges complete with gingiva. Optionally cut back selected areas of teeth and gingiva to prepare space for hand veneering and the acrylic layer. Draw the gingiva's boundary and let the software suggest an initial form that can easily be refined if needed.

Add any type of attachment
Freely add slide or ball attachments, locators and retention holes. Adjust position and angle if needed.

Occlusal bar-alignment
Align bar's topside with the occlusal plane to ensure optimal stability and correct function of the denture.

Complete bar design freedom
Create the perfect bar in any shape using interactive control points.

Combine different bar types
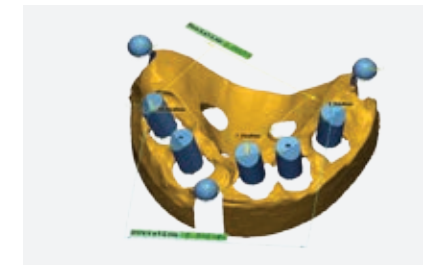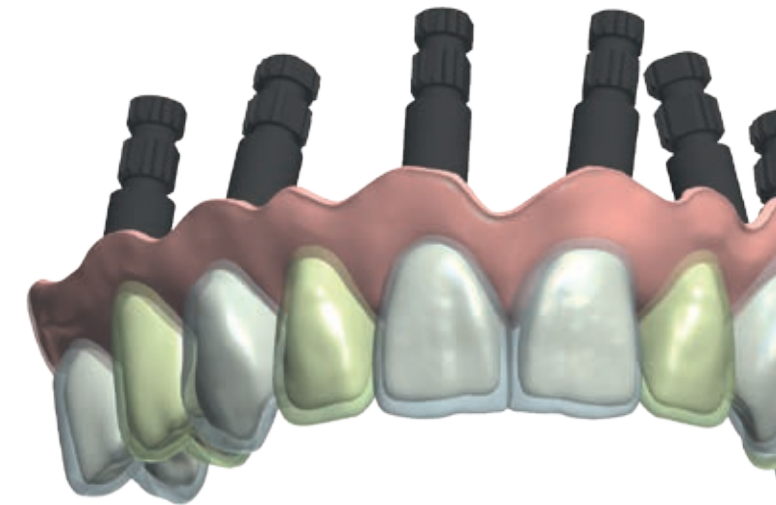Work with any bar type and freely combine multiple types in a single design.

Extensive range of implant libraries
Support for direct-seating and multi-unit abutments.

Cut-to-gingiva tool
Automatically form your bar to match the underlying gingiva.

NEW **Proven bar accuracy with D800 and D900 series scanners**

Implant bars and bridges demand accuracy levels that only few scanners can deliver. 3Shape scanning accuracy is documented according to ISO12836 and specially designed implant objects. This is why labs all over the world use 3Shape's D800/D900 series scanners to produce implant bars and bridges of extraordinary quality.

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.

COMING **Obtain a design directly from denture or wax-up**

Scan the denture and then virtually cut back to facilitate design of an implant bridge that is 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.

Currently not for sale in US

NEW ▸ Prosthetics and Implant planning finally brought together

Finally, a system that brings together implant planning, prosthetics, and surgical guide design to provide a cost efficient solution, improving turn-around time and opening new business opportunities for both dentists and labs. By integrating implant planning with Dental System's design workflows, labs can provide surgical guides and restorative components before surgery.
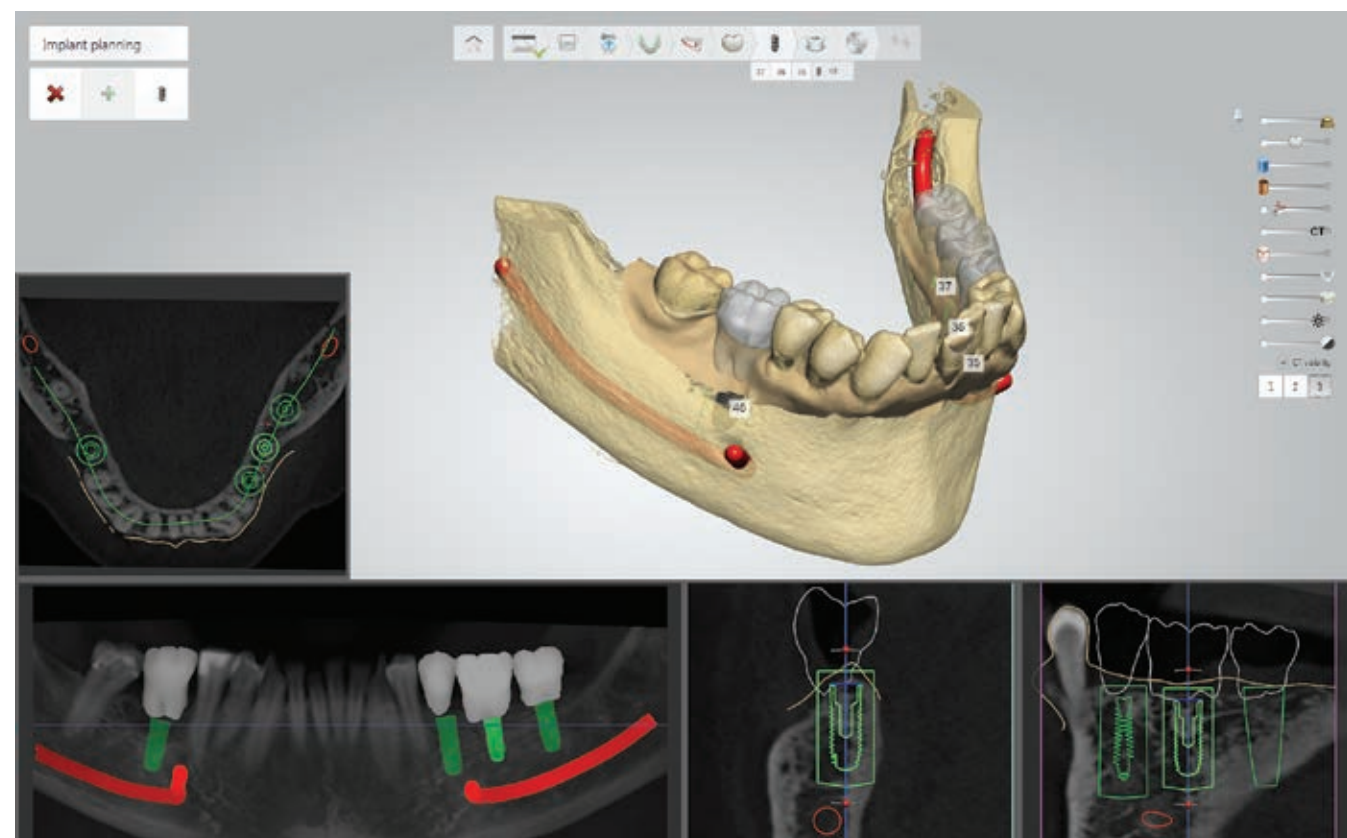
Virtual crowns to guide planning
Start by placing your crowns as guidance for optimal positioning of implants.

Intuitive workflow bar
Easily guides users through planning and design steps

Open system
Open to all types of CT and surface scans, and a wide range of 3D manufacturing machines

Perform implant planning
Based on the crowns' position, virtually place implants while accounting for the clinical situation.

Multiple viewing options
Work in 2D and 3D, from any angle and cross section for best possible assessment

Many implant systems
Access a wide range of implant systems and guided surgery kits, or add your own systems.

Cost-efficient Surgical Guides produced locally
The technician simply sets an outer-boundary for the surgical guide. The software combines this with the planned implant positions to automatically design an accurate guide that will aid the dentist to realize planned implant positions and enable flapless surgery. Guide designs can be produced locally and in a cost efficient manner on verified 3D printers or milling machines.
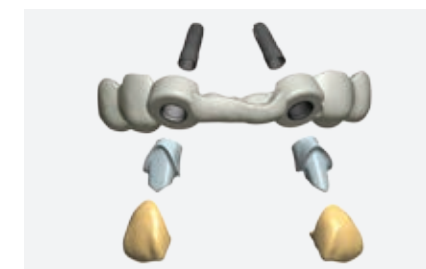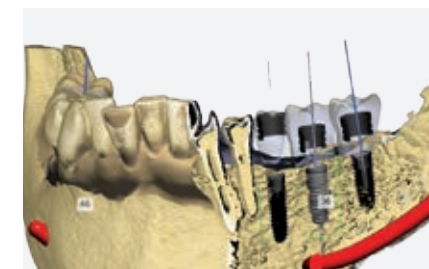
Scan, plan, design in integrated workflows
Implant Studio™ supports a wide range of workflow options through complete integration with both TRIOS® and Dental System™. Scanning and planning can take place in the clinic, or can be provided as a service from the lab. 3Shape Communicate™ enables easy sharing of cases, scans and designs.

**Design temporaries and abutments before implant surgery**
Utilizing the planned implant positions, technicians use Dental System™ to create temporary crowns and bridges, customized abutments, and even the final crown using all existing materials and manufacturing options. By offering drill guides, labs can secure more business by offering restorative components related to the case.

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 optimal esthetic and clinical results. Reuse the healing abutment's emergence profile for the final abutment.

Digital Dentures in a fast and easy workflow

3Shape's 2nd generation Denture Design™ software brings digital precision and efficiency to a traditionally technique demanding process. By combining the flexibility of 3Shape's new and empowered Smile Composer™ with the unique Gingiva Creation Tool, technicians can model highly esthetic and functional dentures while significantly shortening the time needed to design. *Patent pending.*
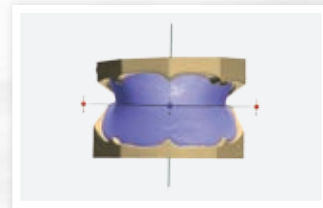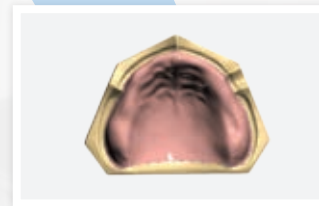
Easily establish occlusion
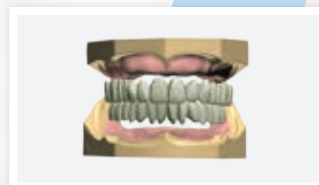Scan upper and lower models plus the wax rim to establish occlusion

Perform Model Analysis
Set reference points to determine teeth library and position

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

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

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

Digital manufacturing
The digital denture design is ready for output on milling machines or 3D printers

NEW Fast and easy teeth setups with the new Smile Composer™
New power in 3Shape's Smile Composer™ makes it easy to quickly set all teeth 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.

NEW 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.
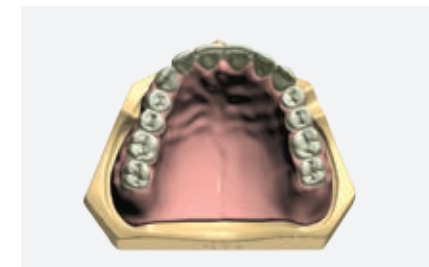
Design a perfect Gingiva with a few clicks
Draw a line to define the outer boundary of the denture directly on the scanned model. The system automatically designs the gingiva perfectly shaped to fit the teeth. Add anatomical details to the gingiva with sculpt and edit tools and easily create lifelike Rugae Patterns.
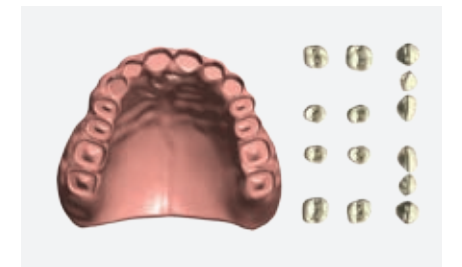
NEW Flexible manufacturing methods
Support for a wide range of manufacturing methods including moulding techniques and milling of gingiva and teeth separately. Also support for combined milling of teeth and gingiva where the acrylic teeth are placed in the gingiva base before the final milling of the dentures bottom side.

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%. The design workflow mimics the manual steps for Removable Partial design thereby ensuring intuitive and accurate digital control over a technique-demanding process. Design both metal and flexible frameworks.

Survey, block-out and expose undercuts

Draw Retention grid

Apply attachments and stippled wax pattern

Design Clasps and Finishing lines

Add Major and Minor Connectors

Add flexible support bars and casting reservoirs

> 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.

Mr David Schwab
Director Dentacast Australia

**NEW** **Extended toolbox for Removable Partial Denture design**
Gain unique freedom for designing support bars, runners, and casting reservoirs of any type or at any angle. Technicians can now omit the manual step, and save time while increasing stability during casting and ensuring accuracy when fitting the final framework.
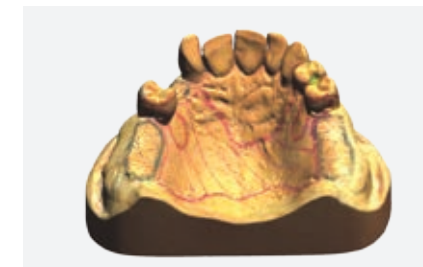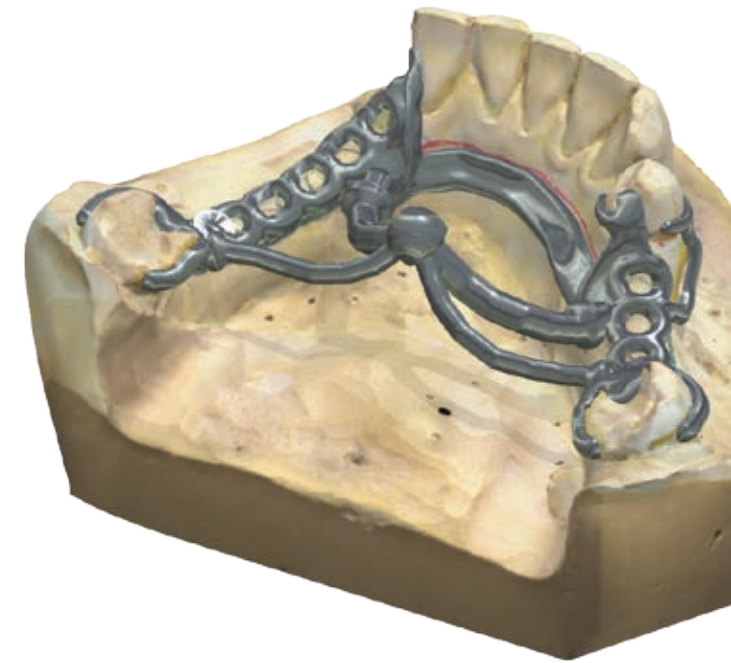
Scan your pencil markings on the model
Texture scanning on the D800 and D900 series scanners captures 2D images of the gypsum model surface and precisely overlays these on the 3D model - enhancing visualization of surface details and bringing hand-drawn design guidance markings into the scan.
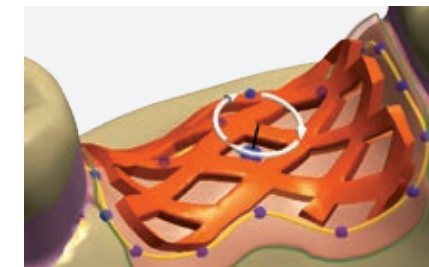
Design sophisticated retention grids
3Shape's Removable Partial design has been empowered with new features, including the Retention Grid tool that lets users easily pan and rotate the grid patterns for optimal placement. Additionally, the Retention Grid library has been expanded with a new 'Lattice Mesh' grid pattern.
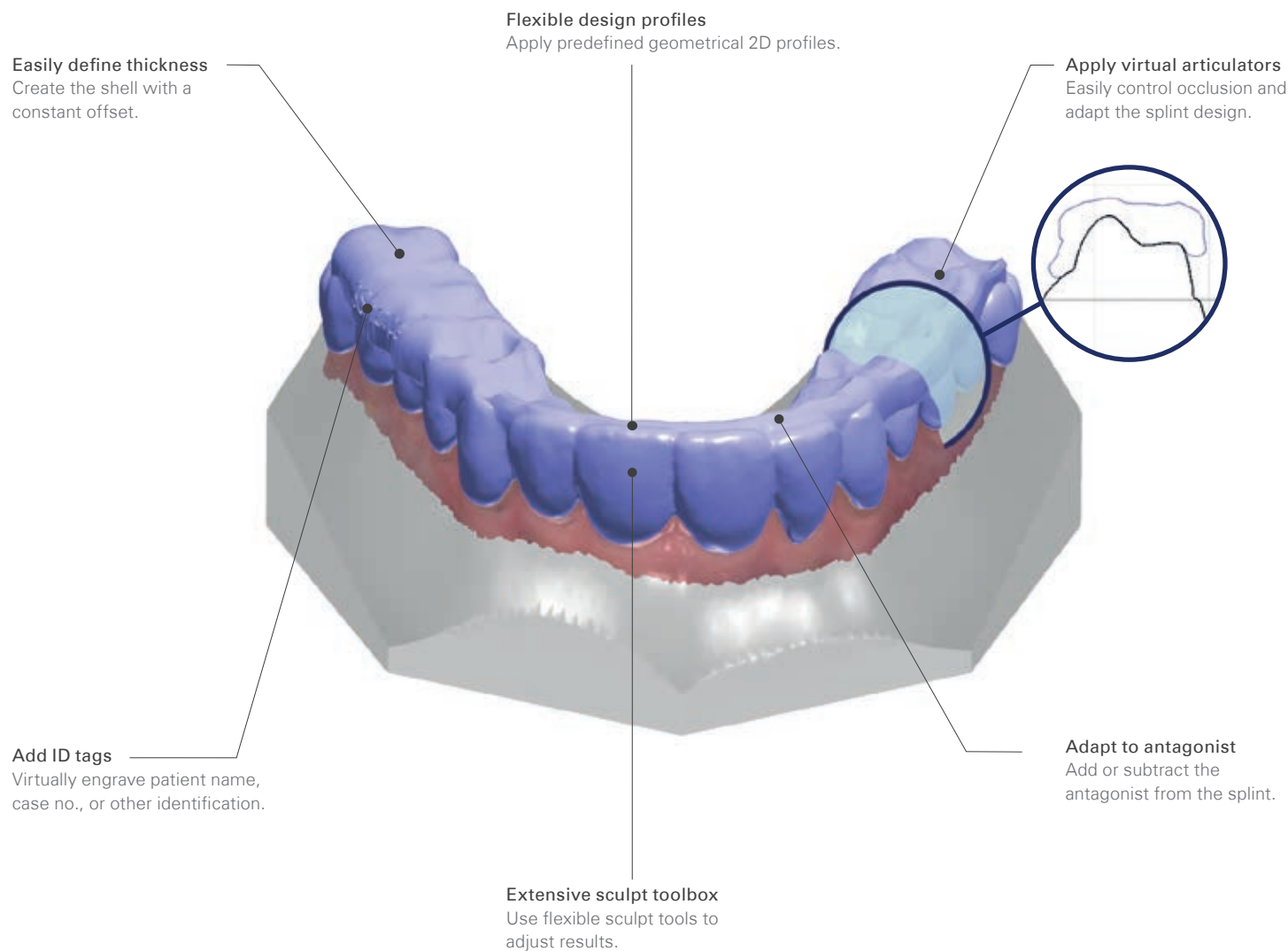
Laser Sintering lets you skip casting
Due to recent advancements in Laser Sintering technologies with improvements in materials, software, and machines, Removable Partials can now be digitally manufactured in metal directly from the CAD design file, completely omitting the need for wax-casting and bypassing manual production steps.

NEW ◣ New business opportunities with Splints

3Shape's new Splint Designer™ lets you expand your digital offerings with Splints, Night Guards, Protectors and similar dental appliances. The unique workflow carefully guides users through each design step. The Splint Designer™ is included with Dental System™ Premium.

Flexible design profiles
Apply predefined geometrical 2D profiles.

Easily define thickness
Create the shell with a constant offset.

Apply virtual articulators
Easily control occlusion and adapt the splint design.

Add ID tags
Virtually engrave patient name, case no., or other identification.

Adapt to antagonist
Add or subtract the antagonist from the splint.

Extensive sculpt toolbox
Use flexible sculpt tools to adjust results.

Bring Orthodontics into your lab

3Shape Orthodontics™ helps labs leverage their investment in Dental System™, by strengthening their orthodontic activities, opening new services, and building closer business ties with professional orthodontists. Labs can provide digital study models, digital treatment planning services, and the Appliance Designer offers a powerful toolbox for designing even sophisticated appliances.
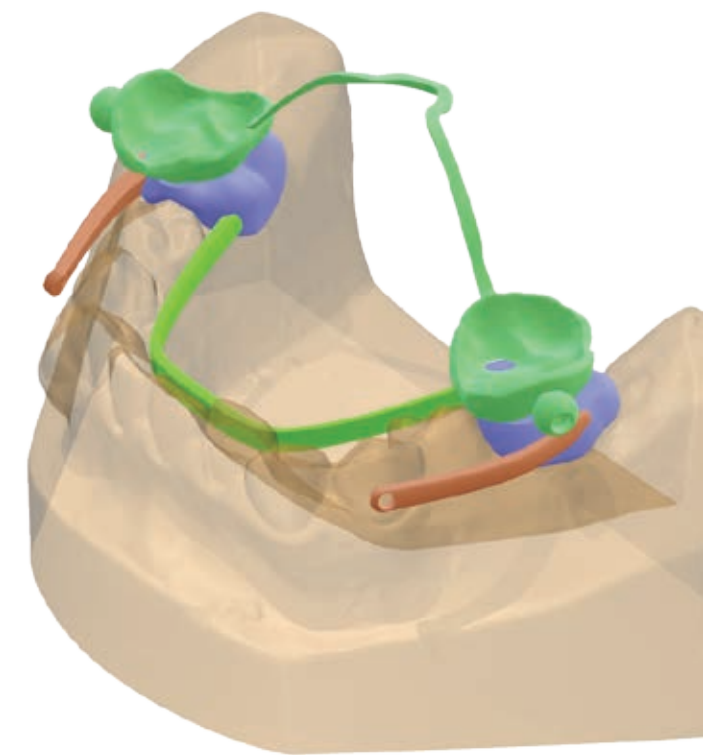

Easily create all types of appliances
Use 3Shape Appliance Designer™ to create nightguards, retainers, customized bands, splints, surgical bites, palatal expanders, bionators, Twin blocks, Herbst appliances, Planas tracks and more. The extensive toolbox gives users ultimate design freedom. Output modified study models, moulds, or appliances using 3D-driven machines and materials.
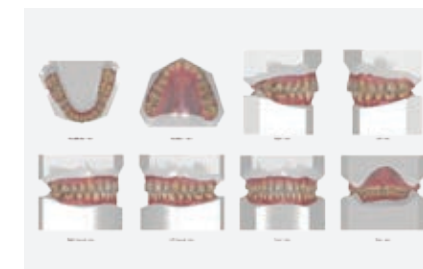
Provide Digital Study models as a new service
Create high-quality digital study models, including virtual bases, in an open format. Digitally capture plaster models or physical impressions using your 3Shape dental scanner or import scans from 3Shape's TRIOS® intra-oral scanner for orthodontics.
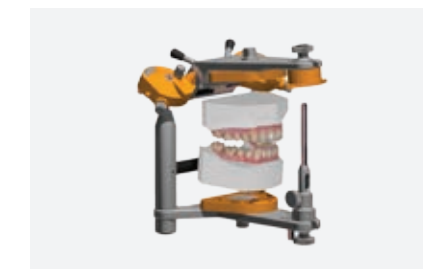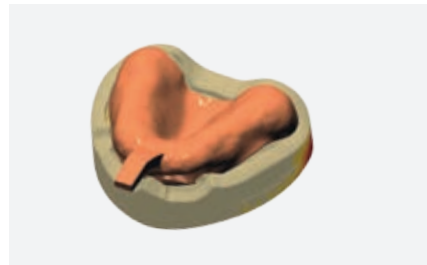
Diagnostics and complete treatment plans
Offer additional services with Ortho-Analyzer™. Perform analysis and diagnostics, as well as treatment planning with virtual setups. Provide full treatment simulations with tools for segmentation, tooth movements and constraints, extractions and inter-proximal reduction, and articulators to evaluate treatment options.

NEW ◣ Customized impression trays using CAD/CAM

Now labs can offer dentists impression trays that are perfectly shaped and matched to the patient. Customized trays allow dentists to capture the complete oral situation, while ensuring equal pressure on the gums. The unique digital workflow ensures an extremely easy and fast design process and newest manufacturing technologies allow labs to produce cost-efficient impression trays on a range of 3D printers.

Automated manufacturing made easy

3Shape CAMbridge® automatically prepares the lab's digital designs for manufacturing according to the selected material and corresponding manufacturing equipment. CAMbridge™ not only helps reduce requirements for manpower and special skills, but also facilitates optimal material utilization and increased manufacturing capacity through parallel processing of multiple items.

Intuitive and fast workflows
Design high quality customized impression trays in a few easy steps. Easily block-out undercuts, draw the boundary of the tray, and add a handle using tray attachments. Customized impression trays can be created from TRIOS®, impression, and gypsum model scans.

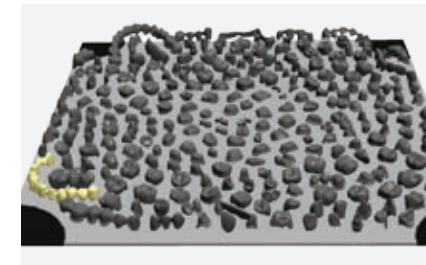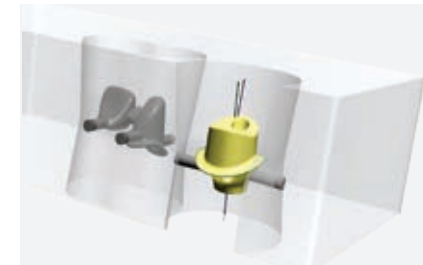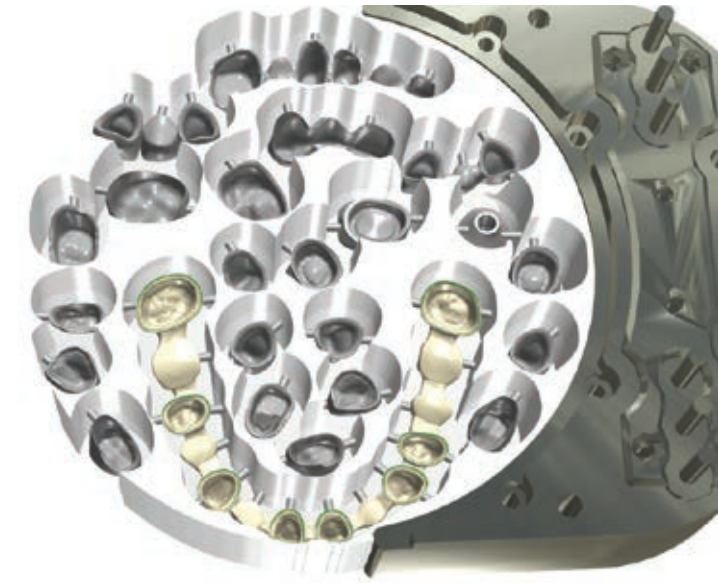**Design trays based on the implant planning**
Use customized tray design in combination with 3Shape's Implant Studio™ software. Exploit the planned implant positions to create customized impression trays with precisely placed exit holes, allowing the dentist to easily remove the transfer pins without grinding the tray.

Cost-efficient solution that opens new opportunities
Labs can add cost-efficient impression trays to their service portfolio for dentists. Recent manufacturing technologies for both 3D printers and new materials allow labs to realize highly economical impression tray production.

NEW ◣ CAM software with 5-axis milling strategies
Get fast processing, razor sharp margins and perfect fist that reduce 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.

NEW ◣ Optimized for wax printers, model making and Laser sinthering
Automatic preparation includes optimal placement, orientation, support generation, order management and communication with the machine. CAMbridge™ ensures high throughput on your "printer" and optimizes your machine investment. Configuration rules automatically group items on the build platform with optional printed boundaries for easy identification.

Complete integration with Dental System™
Users can simply select CAMbridge™ as the order's preferred manufacturing process. CAMbridge™ uses preconfigured settings to produce optimally planned CAM output including orientation, nesting, sprues/pins, supports, and more – all based on key information from Dental System™ such as the indication type, margin lines, insertion directions and more.

Flexible and open input-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 your laboratory's size, location, existing equipment, and manufacturing preferences, your 3Shape system will always smoothly fit in with your workflows and business strategies.

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 True Definition. Imported scans can be used for restoration design and digital models without constraints on the manufacturing output.

Open use of libraries and materials

Dental System™ lets users freely import, update, and work with a wide range of libraries, implant systems and manufacturing materials. Share libraries and materials with your lab's remote offices, colleagues, or manufacturing centers. Create your personal anatomy libraries with your own morphologies.

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. Users enjoy full integration with 3Shape's and selected 3rd party CAM software and output can be received directly by all open manufacturing centers.

Your Notes

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About 3Shape

3Shape has firmly established its position as a leading industry pacesetter for break-through developments in dental 3D scanners and CAD/CAM technologies. More than 400 employees and over 175 developers work daily to bring 3Shape's innovative solutions to dental labs and clinics. 3Shape is a global company and its offices and service centers span the world with presence in Europe, Asia and the Americas.

3shapedental.com
Facebook.com/3Shape
Youtube.com/3Shape

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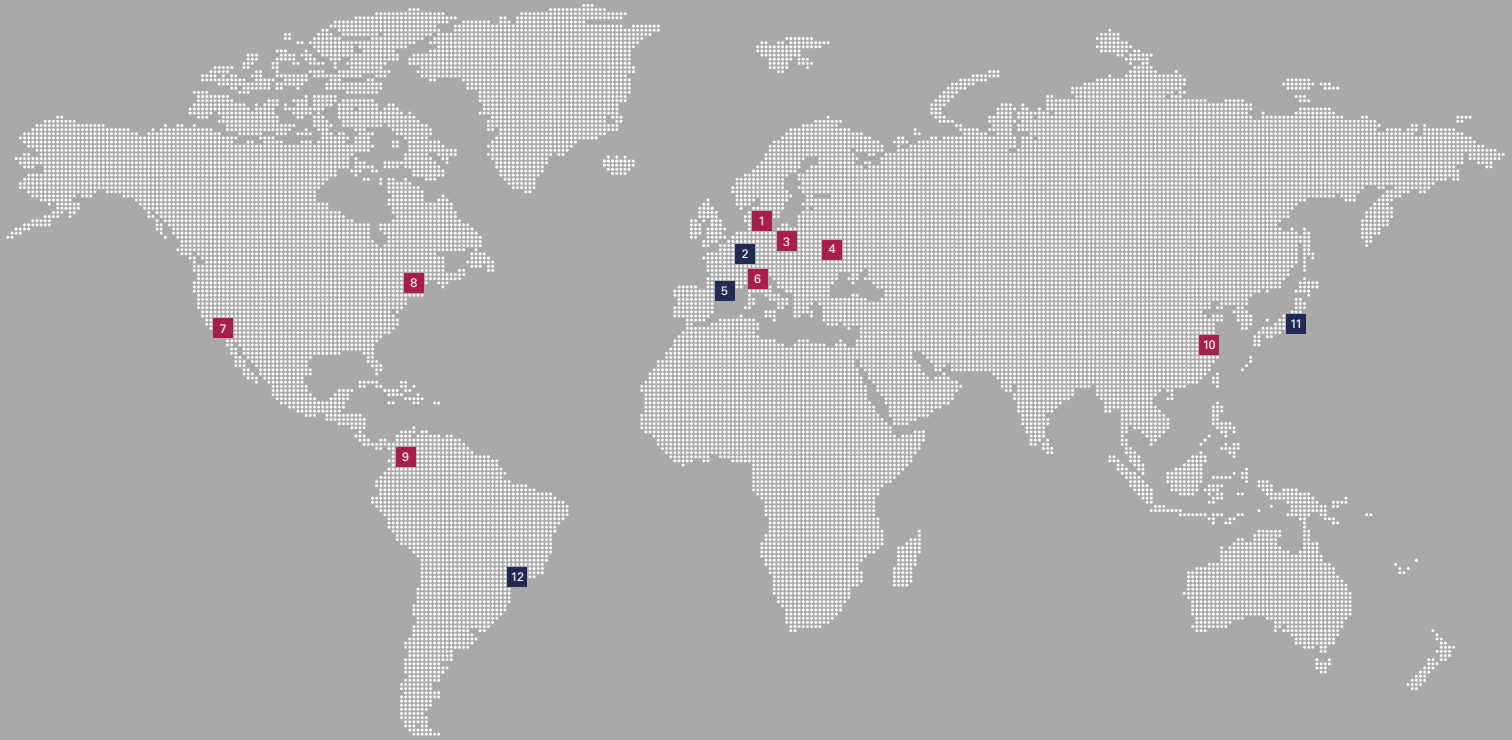
1 3Shape Copenhagen Headquarters
Training, support, hardware service,
development, sales

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 Latin America
Training and support

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

11 3Shape in Japan
Training and support

12 3Shape in Brazil
Training and support

■ **3Shape office**

■ **3Shape presence**

3Shape media