

3Shape Dental System

Innovative 3D scanning and CAD solutions



3shape 



Dear dental lab professionals,

Digital Dentistry is no longer an idea for the future. It is here today and here to stay. Now more than ever, dental labs need to go digital or they will be left behind. With this Dental System release, 3Shape has ensured that labs of all sizes can afford a CAD/CAM solution that is fast, accurate, reliable and future secure.

This year we are introducing the 3Shape E Scanner series as well as optional 3Shape LabCare subscription models so that any lab can embark on its digital journey - or expand the scope of its existing one. And the D2000 scanner with room for 2 models continues to lead the field in terms of productivity and accuracy.

Innovation never stops at 3Shape and 3Shape Dental System enables the widest range of treatment workflows and provides the largest suite of digital tools and libraries. Users get integrated and intuitive workflows, value-packed care programs, and an open ecosystem that freely lets you combine equipment, materials and all that digital dentistry has to offer.

Thank you for helping us change dentistry for the better.

Tais Clausen
Co-Founder of 3Shape

What's new in 3Shape Dental System 2017

Affordable E scanners with latest technologies

Introducing the new affordable E scanners, which make CAD/CAM accessible to labs of all sizes while raising the bar for entry-level solutions.



Stronger and more efficient CAD/CAM software

Introducing new workflows, more efficient scanning, more powerful software, and improvements to the core design tools. The software architecture has been strengthened for increased reliability and performance. And there is much more.

Optional 3Shape LabCare subscription models

We have improved our customer care and subscription programs and now offer 2 options:

1. 3Shape LabCare – we strengthened our care subscription package with an optional warranty and replacement package.
2. Basic package – limited services with no subscription payment for the cost-conscious lab.

See page 27 for more details



3Shape E scanners – now any lab can be digital

In today's digital era, a solid CAD/CAM system has become essential for even the most cost-conscious labs. With its new affordable E scanners, 3Shape makes advanced CAD/CAM accessible to labs of all sizes while raising the bar for entry-level solutions.

Best value for money

Get advanced scanning features and CAD design workflows at an affordable price

Fast scanning

High scan speeds let you complete more cases in less time

Latest technologies

5 MP cameras, Blue LED and multi-line scanning for optimal detail capture and accuracy



Reliable impression scanning

Scan impressions directly without pouring a model, saving time and costs

Auto-start for high productivity

No need to press a button. Starts scanning as soon as you place the model inside

3Shape D2000 – Increase productivity by up to 40%

The D2000 scanner provides very high ISO-documented accuracy, color texture, superior scan speeds and Adaptive Impression Scanning. Featuring industry-firsts like All-in-One Scanning, the D2000 captures upper and lower models, all inserted dies, and occlusion information in a single operation.

All-In-One Scanning saves 4 out of 5 steps with your 3-unit bridge

Scan complete cases in one scan. Room for two models and Auto Occlusion Technology lets you capture upper, lower and bite in one go¹.

5-year warranty & replacement service

Protect your investment and avoid downtime with 5-year warranty and scanner replacement services (optional).



reddot award 2016
winner

Documented 5 micron accuracy (ISO 12836)

4 x 5.0 MP cameras, high quality mechanics and calibration algorithms.

RealColor technology enhances details

Capture all textures and colors on the model for a lifelike design experience.

Quality Control and Service

Quality system compliant with FDA 21 CFR part 820 and ISO 13485

3Shape lab scanners for every need



NEW E1

Essential scanning to digitize your lab

- 2 x 5 MP cameras, Blue LED Multiline
- Accuracy (ISO 12836 / implant) : 10 µm/12 µm
- Scan speed (arch): 40 sec
- Scan speed (die): 25 sec
- Scan speed (full arch impression): 130 sec
- Texture: n/a



NEW E2

Increased productivity and texture scanning

- 2 x 5 MP cameras, Blue LED Multiline
- Accuracy (ISO 12836 / implant) : 10 µm/12 µm
- Scan speed (arch): 30 sec
- Scan speed (die): 20 sec
- Scan speed (full arch impression): 90 sec
- Texture: B&W



NEW E3

High performance and implant bar accuracy

- 2 x 5 MP cameras, Blue LED Multiline
- Accuracy (ISO 12836/ implant) : 7 µm/10 µm
- Scan speed (arch): 24 sec
- Scan speed (die): 18 sec
- Scan speed (full arch impression): 80 sec
- Texture: Color



D1000

Ultra high productivity and die-in-model scanning

- 4 x 5 MP cameras, Blue LED Multiline
- Accuracy (ISO 12836 / implant) : 5 µm/8 µm
- Scan speed (arch): 16
- Scan speed (die): 15
- Scan speed (full arch impression): 65 sec
- Texture: Color
- Scanning strategy: Die in model



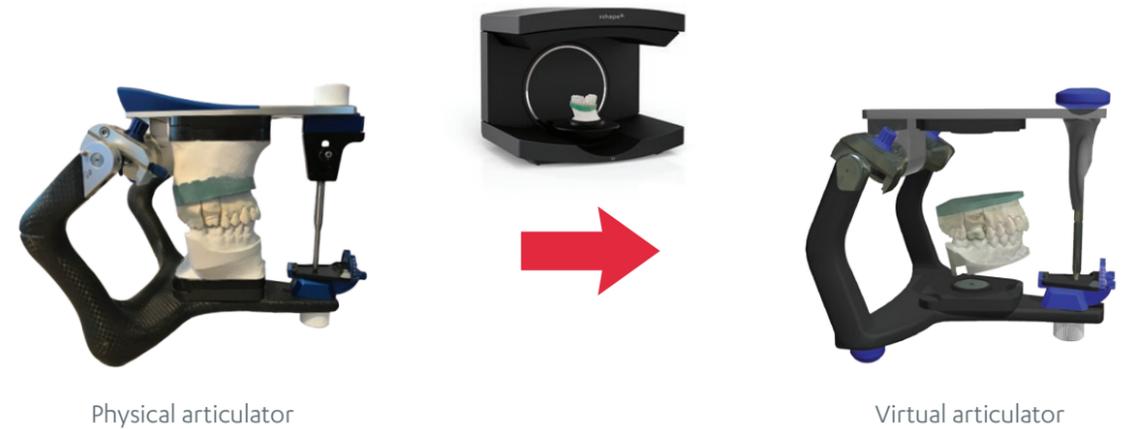
D2000

All-in-one scanning for max volume throughput

- 4 x 5 MP cameras, Blue LED Multiline
- Accuracy (ISO 12836/implant) : 5 µm/8 µm
- Scan speed (arch): 16
- Scan speed (die): 15
- Scan speed (full arch impression): 65 sec
- Texture: Color
- Scanning strategy: All in one

NEW Transfer correct positions and reduce manual adjustments

3Shape's enhanced Articulator Transfer Plate solution accurately transfers the position from the physical articulator into the virtual articulator reducing the need for manual adjustments. You also skip the bite scan and save an extra scanning step. Works with any articulator.



Physical articulator

Virtual articulator



NEW Accurate implant scanning made easy with 3Shape scan bodies

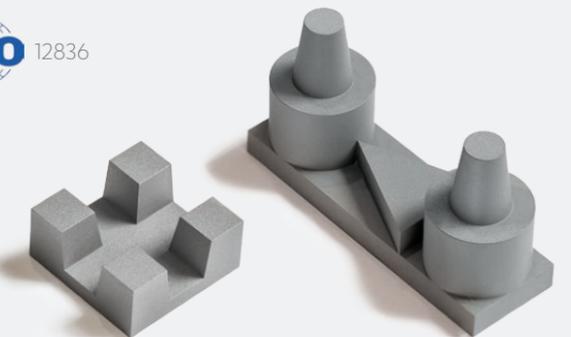
Get your high-accuracy titanium scan bodies directly from 3Shape. Available for all major implant systems, 3Shape scan bodies feature a unique ID code that automatically identifies the implant system and connection. Compatible with intraoral and lab scanners.



Know your investment

- documented high scan accuracy

Before choosing a scanner, users should know the accuracy measurement methods behind the manufacturer's claims. 3Shape measures and documents accuracy for all scanners using ISO standards and dedicated implant bar validation objects.



Get **impression scanning** and secure your investment

Impression scanning is gaining popularity in labs due to the improved scanning technologies, new options to design without pouring a gypsum model, and high performing 3D printing at lower costs. Looking ahead, impression scanning is expected to become the standard for 3D scanning in the lab, leaving “gypsum only” scanners obsolete.



“3Shape’s impression scanning is amazingly powerful. I’m now scanning impressions every day and I get great results every time.”

Lee Culp,
CDT, Sculpture Studios, USA



NEW Scan all types of impression trays
Get support for scanning single trays, triple trays, bite registrations and easily perform bite alignment.

Scan a full arch impression in just 65 seconds

D2000 technology is revolutionizing speeds for impression scanning, providing users with incomparable productivity.

Next generation impression scanning technologies

Improved software performance and multi-line technology significantly improve cavity and impression capture

Patented technology ensures complete capture

Adaptive Impression scanning detects incomplete surfaces and automatically applies an optimal combination of camera and 3-axis motion, ensuring accurate capture of preparation, proximal and contact areas.



COMING Scan impressions with implants

Optimized impression scanning accurately captures the implant positions and angles directly from implant impressions saving extra steps and reducing error margin.

Be the lab that gets the intraoral scans

A lab's ability to work with intraoral scans is becoming increasingly crucial for its future. 50% of all dental practices expect to invest in an intraoral scanner within the next 3 years.* Dental System, with both TRIOS® integration and 3rd party intraoral scan support is the leading CAD/CAM system for receiving and working with digital impressions.



New business opportunity

Thousands of dentists are using 3Shape TRIOS to take digital impressions and they seek 3Shape labs to work with.

Get your lab ready for 3Shape TRIOS

The TRIOS Ready program connects and advertises your lab to customers. See www.3shape.com/triosready for more information.

Wealth of information in 3Shape TRIOS scans

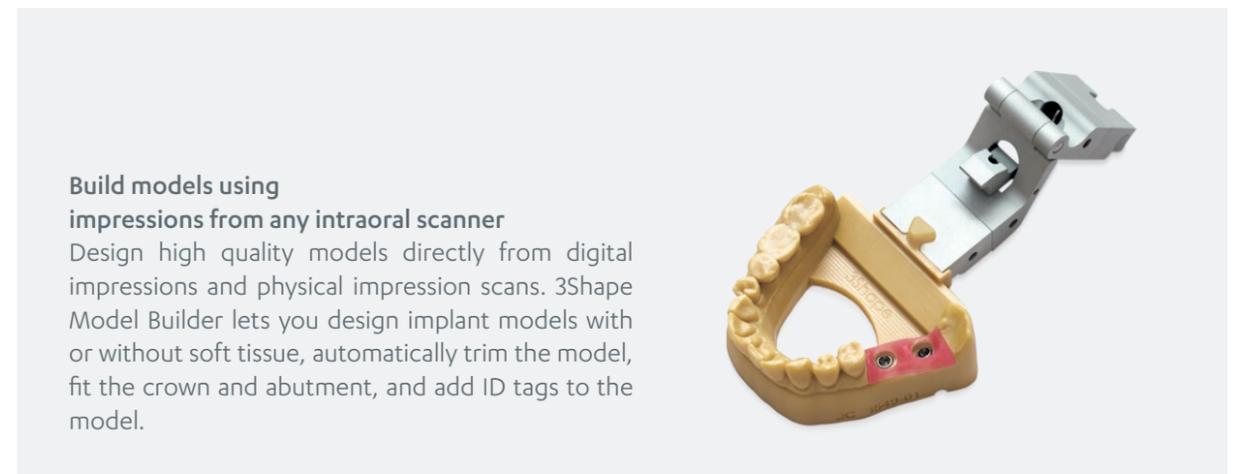
Reliable shade measurements, HD Photos and high quality video to support design and treatment.

Smooth and seamless workflows

Enjoy the simplicity of integrated and verified workflows. The scan and all its information are immediately available for designing the case.



Receive TRIOS scans and share cases in the cloud
3Shape Communicate® opens a new realm of collaboration between dentists, surgeons, and lab technicians. Easy and flexible sharing of scans and designs enhances efficiency, relationships, and final treatment results.



Build models using impressions from any intraoral scanner

Design high quality models directly from digital impressions and physical impression scans. 3Shape Model Builder lets you design implant models with or without soft tissue, automatically trim the model, fit the crown and abutment, and add ID tags to the model.



Open system supports 3rd party intraoral scans
Take advantage of the verified and dedicated import workflows for all major 3rd party scans - to handle processing of the specific scan data as well as to access all contained information regarding the order and materials.

Fast and robust crown and framework design

Crown and framework design remains the key business for many labs. That is why 3Shape continues to create powerful tools and workflows for increased productivity and high esthetics for all types of restorations - whether you're designing single crowns or complete reconstructions.

NEW Faster movement between design steps

Save even more time when navigating between steps

NEW Highly robust design engine

Continued optimization with strengthened robustness for handling large cases

COMING Provide reduction copings and matching crowns

Dentists can trim an over-done preparation and mount a matching crown



NEW Faster crown-to-margin transition

Speedy algorithms adapt the crown's design to snugly fit the margin

Split bridges into two pieces

Create bridges with different insertion directions for challenging cases

NEW Faster connector design

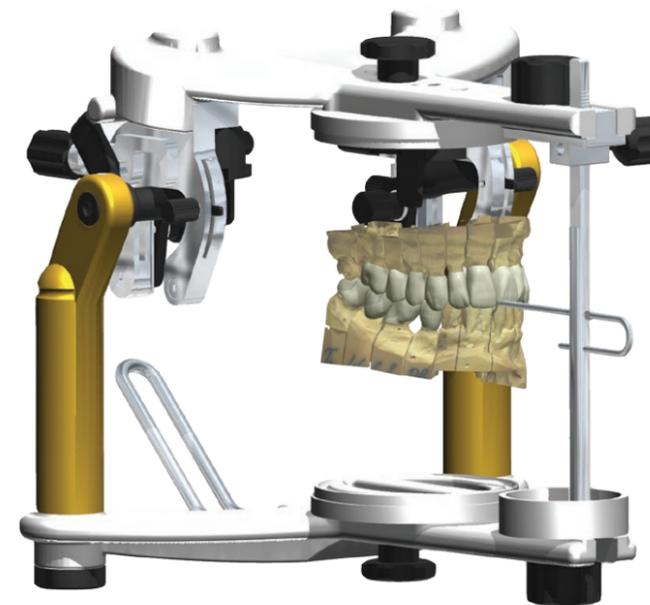
New algorithms dramatically speed up the calculations for creating optimal connectors



Exclusive Signature Libraries from renowned technicians

Apply highly professional anatomy libraries created by recognized masters of esthetic and functional morphology design. New and updated libraries are added all the time.

NEW Superior function and fit with true articulator positions



Too many technicians spend too much time on adjusting crowns after milling. That's why all 3Shape scanners now support the unique 3Shape Articulation Position Transfer process. It enables technicians to bring the exact position from the physical articulator into in the software's virtual articulator, and thereby replicate the actual physical motion and avoid the need for making post-adjustments.

Offer the perfect smile

The ability to create highly esthetic smile designs is a highly attractive and profitable area for labs. 3Shape provides a new powerful solution for fast and easy creation of smile designs in 2D, and the ability to accurately match 2D photos with 3D designs. Enable patients to try out their new smile before final treatment by creating a mockup model and matrix based on the design.

COMING Smile Design software - Guide the dentist with a photo

3Shape's new fast and easy software lets technicians and dentists use a photo of the patient to create a 2D image of the smile design in a few clicks. Labs can now provide dentists with a perfect way to convincingly sell treatments to patients.



Use RealView to create true predictions and link 2D to 3D

3Shape's RealView allows technicians to create near photo-realistic visualizations of patient-cases by bringing together the patient's face and teeth designed in 3D.



Nelson Silva, Rodrigo Albuquerque, Adriana Vieira,
Luiza Silveira UFGM, Brazil. Telmo Santos, Coterc, Brazil

Patients can try out their new smile

Let patients judge for themselves and give them the full emotional effect. Easily create a mock-up model with the new design so that the patient can try the new design directly in the mouth



“Creating a digital smile design (DSD) using 3Shape Smile Design is easier and faster than any other tool.

Livio Yoshinaga
co-founder of DSD



Before

After



1. Make a model with the new restorations
2. Dentist creates a matrix on top
3. Inject mockup material
4. Let the patient try it on

Do more **digitally**

Dental System's digital tools and automatic workflows give your lab a competitive edge by making it easy for technicians to provide dentists with the full range of treatment workflows in any material, with superb functionality and high esthetics.

More business with digital temporaries

Patients can try out the final crown design as a cost-efficient temporary. Unique workflows include reusing the temporary design for the final crown, positioning guides for accurate placement, cost efficient model-free method.



Digital efficiency for your Post & Core cases

3Shape's unique and patented solution brings new levels of productivity to classic Post & Core treatments. 3Shape designed Scan Posts facilitate accurate capture of Post & Core positions and depths.



NEW Auto-inlay for high productivity

Easily design highly esthetic inlays and onlays with a minimal need for adjustments. The new margin line tool makes it fast and easy to define the margin.

Primary & secondary telescope constructions for even complex clinical cases

Design the anatomy first to intuitively guide the telescope design using flexible tools and attachments, and to realize better results in terms of space, functionality, and esthetics. Increase accuracy because you can scan un-sectioned models.



Unique workflows for non-preparation veneers and table-tops

Create highly esthetic veneers by placing the anatomy first to automatically define the margin line on a non-prepared tooth. Apply table-tops to raise the bite using your virtual articulator and Smile Composer to place teeth, and let the software cut the table-top.



NEW Digitally create pressing and casting trees

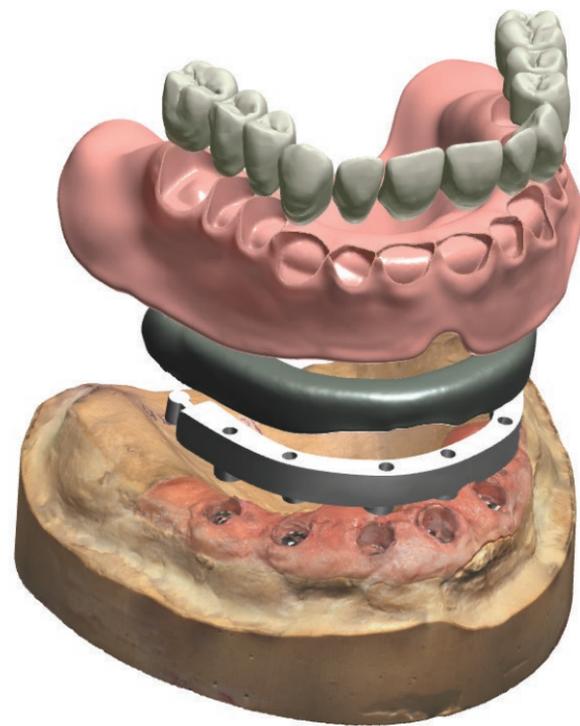
Now you can digitally create wax trees and further improve your productivity and control. Easily combine restorations into a single cast tree for casting or pressing.

Design implant restorations digitally and **grow your business**

3Shape Dental System gives technicians the full extent of design options and treatment workflows - from both the major original implant manufacturers as well as compatible-with products. Labs depend on high accuracy for their bar and bridge cases - which is why accuracy on all 3Shape scanners is verified and documented according to ISO12836 and specially designed implant objects.

NEW Combine designs of bars, secondary structures and dentures

New workflow enables technicians to design using all components without rescanning



Design any type of bar and add any attachment

Primary, Dolder, Hader, Hybrid, Canada, and Wrap-around. Freely add slide or ball attachments, locators, retention holes

NEW Support for both male and female attachments

Design the secondary structure with the exact space and position to match the corresponding attachment in the primary

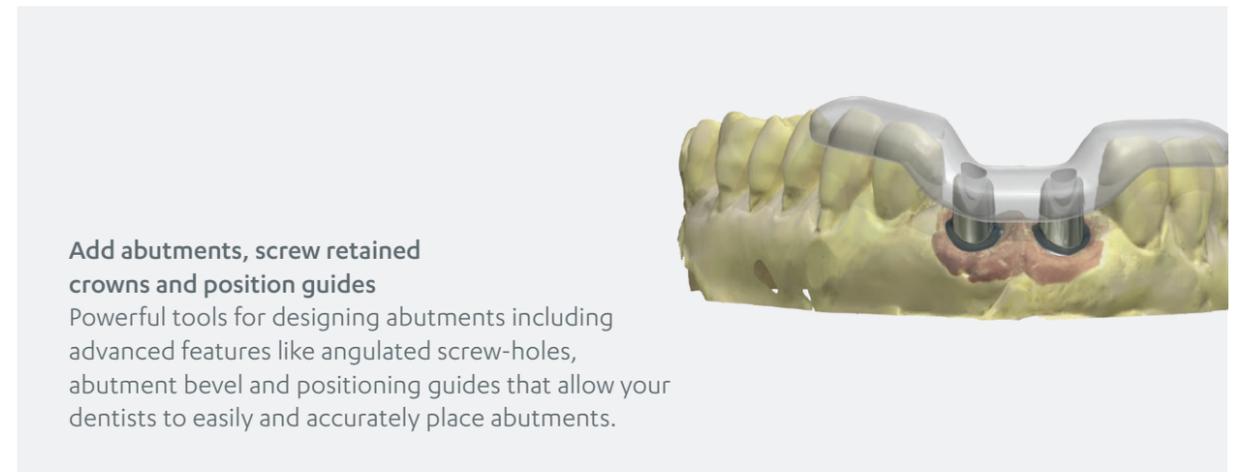
NEW FDA 510(k) clearance for abutments, bars and bridges

Work with confidence. All implant cases designed using 3Shape Dental System software are covered by the FDA 510(k) clearance*



Design beautiful implant bridges

3Shape's Smile Composer is optimized for stability, speed and large implant bridge designs. Easily apply the gingiva based on the final anatomy and a gingiva boundary that you define.



Add abutments, screw retained crowns and position guides

Powerful tools for designing abutments including advanced features like angulated screw-holes, abutment bevel and positioning guides that allow your dentists to easily and accurately place abutments.



NEW More than 80 implant libraries

Create implant restorations using implant components or milling centers - sourced from both original and compatible-with implant manufacturers. And the list will continue to grow. See all on: 3shape.com/implant-libraries

*Implant libraries integrated with 3Shape software need to apply individually to receive 510(k) clearance. In the United States, 3Shape Abutment Designer can only be used with libraries with documented 510(k) clearance.



Expand your business with new services

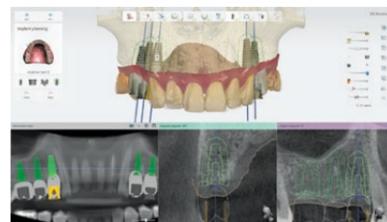
Add 3Shape's orthodontics and customized tray solutions to your system and get even more from your Dental System investment. Use your lab scanner with the intuitive workflows to provide a wide range of basic orthodontic products and services. An easy and straightforward way to expand your customer base and create new business.



Offer splints, night guards, mouth guards and other dental appliances
Intuitive workflows, flexible tools and advanced user guidance make it easy for technicians to design high quality splints. Designs are ready for optimized manufacturing on milling machines and 3D printers.

Bring in more implant restoration cases by offering surgical guides

3Shape Implant Studio software makes it easy for labs to produce surgical guides, and optionally offer implant planning. Offering such implant services helps the lab secure the order, including the complete implant restoration which is easily produced by utilizing the planning information in the standard Dental System design workflows.



Prosthetic driven implant planning

Use the latest advantages in Implant Studio to easily plan implant positions based on the final restoration, or receive planning from the dentist. Direct communication tools allow you to quickly share and confirm your planning results with the dentist.



Design and produce surgical guides

Based on the implant planning results, easily design surgical guides for the case. With the latest advancements in small 3D printers, you can now produce guides in-house at very competitive prices. Guides can also be milled if preferred.



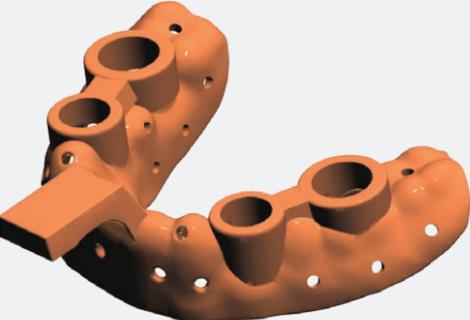
Design and manufacture implant restorations

Your implant planning also lets you create customized abutments (healing and final), temporary screw retained crowns and bridges, and even the final prosthetics. All of these implant restorations can be produced using your normal workflows and equipment.



Provide indirect bonding services & digital storage
Innovative indirect bonding software enables you to easily and accurately position brackets according to clinical principles. Digitalize plaster study models to help your clients save storage space by archiving their models digitally.

Read more about Orthodontic digital solutions in our brochure: 3Shape Orthodontics for labs.



Cost-efficient customized impression trays using CAD/CAM
Improved design tools include extremely fast creation overflow holes in the tray. Bypass pouring a gypsum model by scanning the impression directly to design customized trays and print them on low-cost 3D printers.

Do your full dentures digitally

The combination of 3Shape's latest Denture Design software and new possibilities within manufacturing makes it highly attractive for labs to produce dentures digitally. These CAD/CAM technologies that are now available to labs will increase the profitability of denture production while making the individual technician more efficient.

NEW Design single-arch dentures

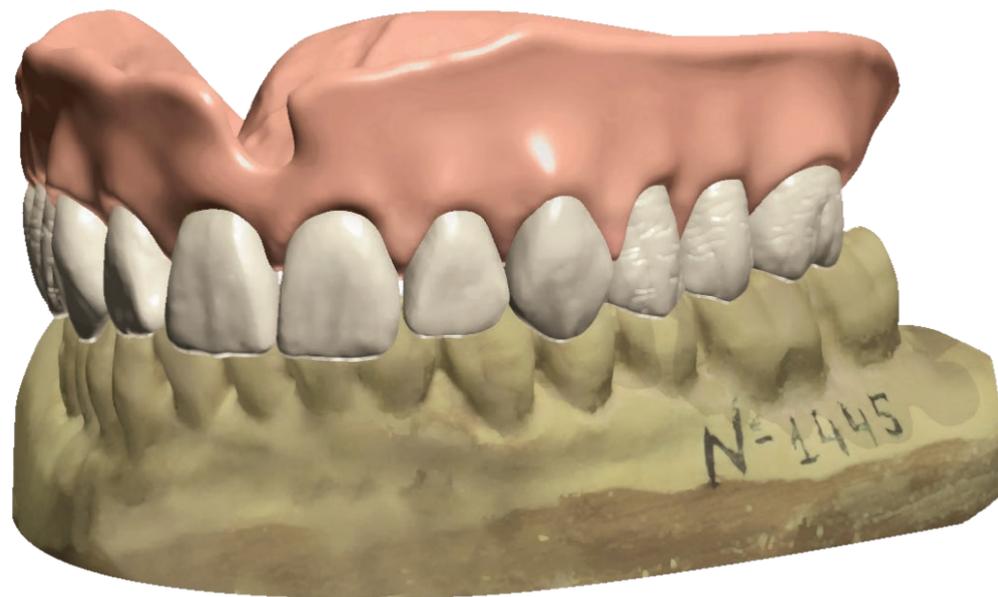
Scan and design dentures for single arch while adapting to the antagonist using the virtual articulator.

NEW Design immediate dentures

Extract teeth, perform bone reduction and remove artifacts to avoid pouring gypsum and the following grinding.

NEW Mill or 3D print customized teeth

Freely design the teeth and organize them individually or in blocks for efficient production of dentures.



NEW Combine gypsum and impression scans

New scan application allows users to align and merge different scans for flexible workflows.

NEW Including new major denture teeth libraries

We have brought in even more of the key libraries, giving technicians open options to use their preferred teeth manufacturer.

NEW Full workflow for try-ins

Design your try-in and check it out on the patient. Rescan the try-in to capture adjustments and update the design for a better denture.

Designing Removable Partial Dentures starts with virtual teeth

Revolutionary improvements within 3D printing are making digital RPD production more profitable for labs. 3Shape's Removable Partial Denture Design software lets technicians place virtual teeth that guide them for better framework design while reducing production time by 60-70%. A technician can now design a Removable Partial Denture in less than 15 minutes.

NEW Add virtual teeth for better frameworks

Place virtual crowns to guide your frame design for optimal stability and esthetics.

NEW Improved clasp design for optimal production

Virtually place strong-points to secure the clasps' rigidity during manufacturing

NEW Share and manage design settings

Easily define and share configurations of framework design settings with technicians or other labs.



NEW Flexible choice of connector types

Easily create and use major connectors with different waxing material properties.

Easily design metal dummies

Turn the virtual crowns into metal dummies or anatomically reduced teeth completely merged within the framework

Scan pencil markings on the model

Texture scanning brings your hand-drawn design-guidance markings into the software.

COMING One system, one interface, one workflow

The 3Shape Dental Desktop brings all your digital dental applications into one integrated interface and workflow. No more annoying opening and closing of programs, or importing and exporting between systems. Simply choose your task and follow the workflow all the way to automated manufacturing. Use 3Shape Communicate to share 3D scans and designs in the cloud and collaborate with dentists, surgeons and other technicians.



“ We are building a new lab software platform to ensure continued high performance, solid reliability, as well as future expansion with new integrated technologies.”

Rune Fisker

VP Product Strategy & Dental Lab Solutions

Order



Create and manage orders. Import intraoral scans, CBCT, photos and more to create the digital patient.

Scans



Scan models, impressions, or use an intraoral scanner directly.

CAD



Work with the widest range of design tools, dedicated workflows, and treatment options.

CAM



Trigger easy and productive manufacturing with fully integrated CAM for milling machines and 3D printers.

The widest range of treatment workflows with the strongest ecosystem

With 3Shape Dental System, labs can continuously expand their portfolio with more services in order to stay ahead. 3Shape is renowned for its unrivaled range of treatment workflows, solution integrations, extensive libraries, and interfacing to virtually all manufacturing equipment and materials.



NEW 3Shape LabCare subscription options for any need and budget

3Shape now lets you choose between two service agreements. 3Shape's LabCare subscription package gives you high value services plus the option to protect your investment with an attractive warranty and scanner replacement agreement. Or you can choose the new Basic package - a no-subscription program offering limited services free of charge.

| | 3Shape LabCare The comprehensive service package that keeps you ahead and constantly productive | NEW Basic package Limited services with no subscription payment for the cost-conscious lab |
|--|--|---|
| Software upgrades New software releases with latest developments including libraries, workflows and tools. | All | Patches only |
| Support Authorized experts help you in your local language and time-zone. | ✓ | Pay per call |
| Training & events Comprehensive user events and trainings by leading dental technicians and 3Shape experts | ✓ | |
| Special discounts Save money on additional scanners and software. | Up to 25% | |
| Availability The packages are available with the following scanners | All scanners | E1, E2 & E3 |
| NEW Warranty & Scanner Replacement service (add on) | With 3Shape LabCare | With Basic package |
| Scanner repair and scanner replacement to avoid downtime | Up to 5 years | 1 year warranty (no replacement) |

5 reasons to choose 3Shape Dental System



More treatment workflows and better tools

- The widest range of treatment workflows including special types
- Powerful tools, intuitive interface and guided workflows
- Complete order management



A scanner for every need and documented accuracy

- Complete scanner & software integration
- Documented lab scanner accuracy according to ISO 12836
- Quality system compliant with FDA 21 CFR part 820 and ISO 13485



Global customer care

- Optional service and subscription packages
- Webinars, training and 100 Support & Training specialists in 13 countries
- 7 scanner service centers worldwide



Stronger ecosystem

- 3Shape TRIOS® and integrated solutions
- 80+ Implant libraries, as well as extensive material & milling center libraries
- Broad integration with 3rd party mills, 3D printers and IOS



Future proof solutions

- 3Shape innovation by over 300 developers
- Long-term sustainability and unlimited software upgrades
- 80 pending patents

About 3Shape

3Shape is changing dentistry together with dental professionals across the world by developing innovations that provide superior dental care for patients. Our portfolio of 3D scanners and CAD/CAM software solutions for the dental industry includes the multiple award-winning 3Shape TRIOS intraoral scanner, the game-changing 3Shape X1 4-in-1 CBCT scanner, and market-leading scanning and design software solutions for dental labs. Two graduate students founded 3Shape in the year 2000, and today the company's fast-growing team of employees in 19 offices worldwide is serving customers in over 100 countries. 3Shape's products and innovations continue to challenge traditional methods, enabling dental professionals to treat more people more effectively.

Contact your reseller regarding availability
of 3Shape products in your region

3shape 