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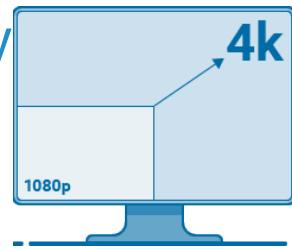
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DWOS 2020 - What's new

4K and touch-screen compatibility



We recognize the importance of the tactile technology, and adapted DWOS for use on Wacom tactile devices. We implemented the conventional controls most active mobile device users are accustomed to. They provide a variety of benefits such as:

- reduced space occupation and increased mobility
- simple user interface and improved accessibility
- easy cleaning and maintenance

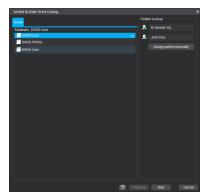
DWOS Action	Gesture	Description
Left click	 Tap	Touch the screen once.
Right click	 Press	Touch and hold until information is displayed or the action occurs.
Zoom in / out	 Pinch open/close	Pinch two fingers together or apart to zoom in or out on a view.
Pan	 Touch and drag	Move content via direct manipulation (content sticks to fingers and follows). Use the touch and drag to reorder or move specific items.
Rotate	 Rotate	Touch screen with two fingers and use one finger to pivot around the other.

DWOS 2020 - What's new

Model Builder

Basic model configuration

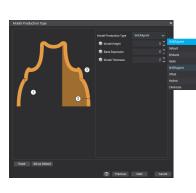
When you open a case in the Model Builder, you are prompted to specify basic model settings for the material, stump, model types, analogs, and articulator.



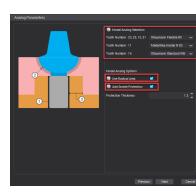
Step 1. Material settings



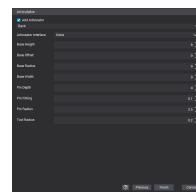
Step 2. Stump settings



Step 3. Model settings



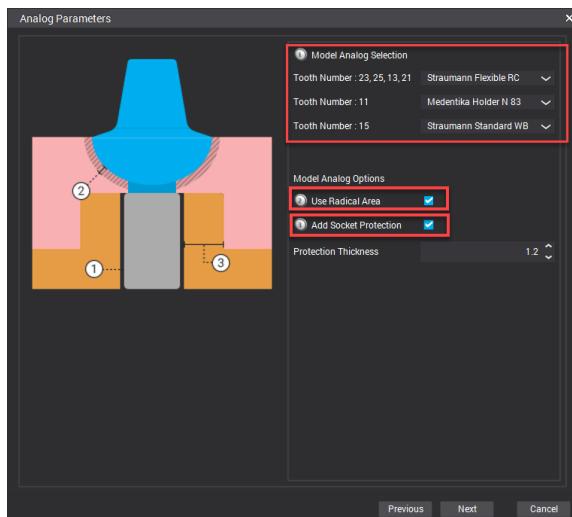
Step 4. Analog settings



Step 5. Articulator settings

Analog socket types

Analog selection for implant-borne restorations is now included in the basic model builder procedure. You can follow the workflow and set up socket types before the first model build.



1 Analogs with the same platform are grouped together¹.

2 The radical area, used to cut the model from the design, is now disabled by default. To enable it, you need to validate the emergence profile in the CAD station first.

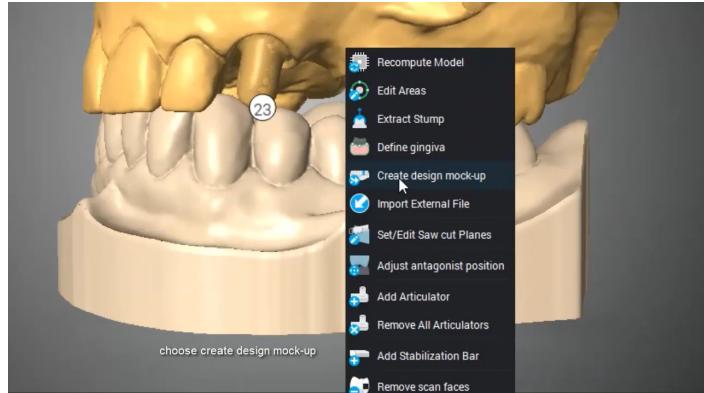
3 Enable the socket protection to keep guidance and retention for the analog.

¹Applies for Straumann kits only

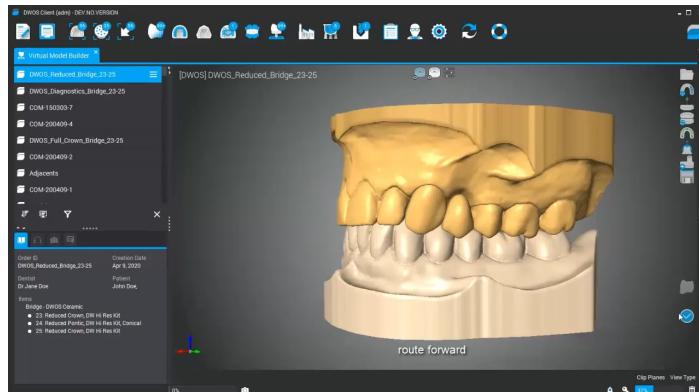
DWOS 2020 - What's new

Design mock-up

The design mock-up¹ provides lab technicians with a preview of the final restoration. It can be printed to be sent to the dentist for validation and approval. Patients can thus get an idea of what they will look like with the restoration in place.



1. Right-click on the model and select Create design mock-up.



2. Inspect the mock-up.

The mock-up should show the prosthesis you designed in the CAD station.



3. Print out the model and send to the dental practice for validation.

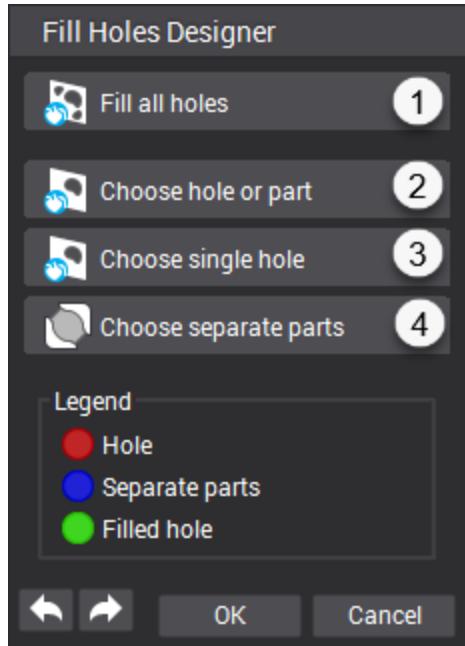
¹The design mock-up is not available for wax-up prostheses

DWOS 2020 - What's new

Fill-hole panel

The enhanced hole-detection algorithm provides users with several alternatives to deal with scan disruptions that might occur during external die extraction, as is the case with itero files.

The streamlined workflow meets the needs of both fast users (automatic detection and fill) and advanced users, who want to process scan disruptions manually, one by one.



1 **Fill all holes** - designed for fast gap detection and coverage. It automatically fills all highlighted holes.

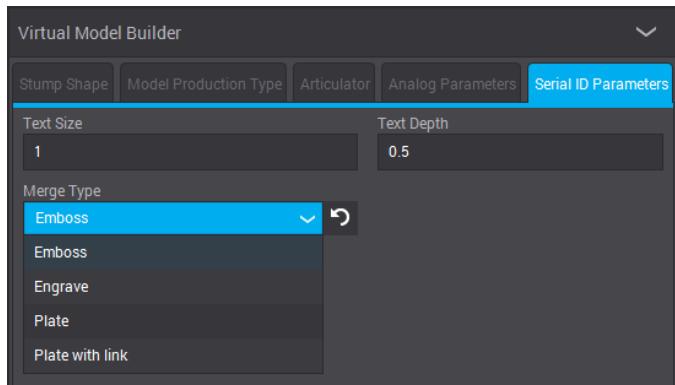
2 **Choose hole or part** - designed for power users. You can manually select & close single holes and separate parts on the model.

3 **Choose single hole** - designed for power users with high precision. You can manually select & close holes on the model.

4 **Choose separate parts** - designed for power users. You can connect separate part by clicking on two opposite borders.

Serial ID

You can now configure the serial ID parameters for the virtual models. To do so, go to Settings > Material Management > Virtual Model Builder > Serial ID Parameters.

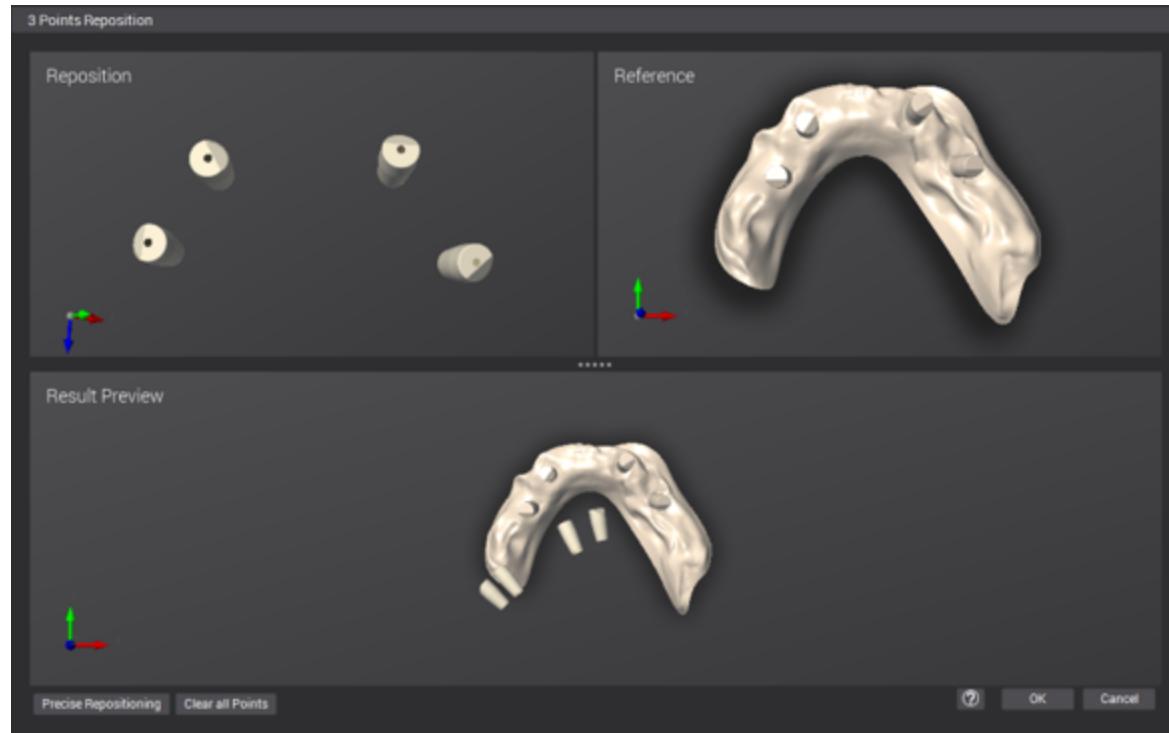


Scanbody Global Positioning

The global scanbody positioning is a mapping system identifying the location of each scanbody used in a restoration. This information is now stored in one file that you can import and use in DWOS to reposition every scanbody.

The benefits of this approach are twofold:

- Dental practices can now send all scanbody positioning information in one file.
- Lab technicians can then use the unique file to automatically assign the correct reference position to all scanbodies used.

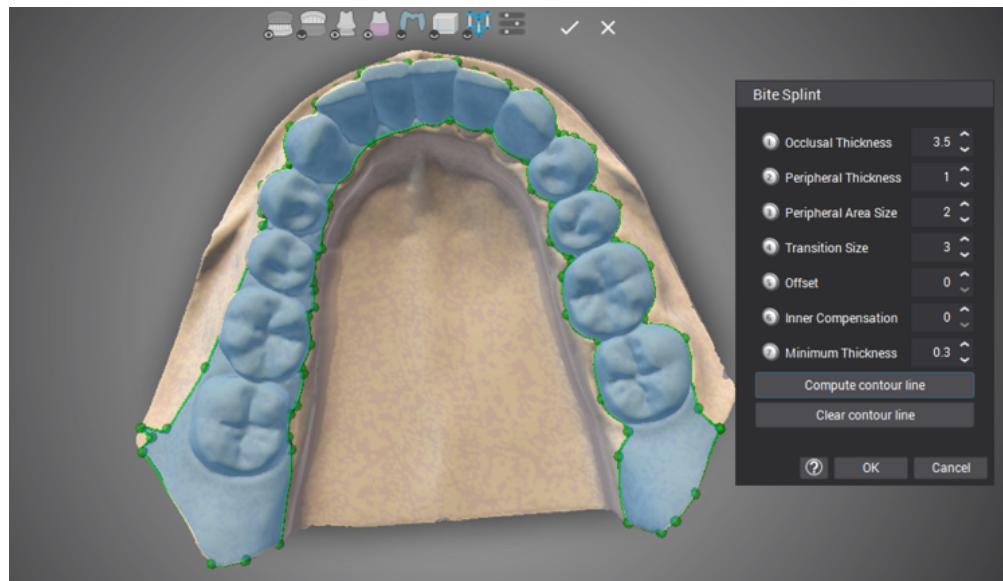




Bite Splint

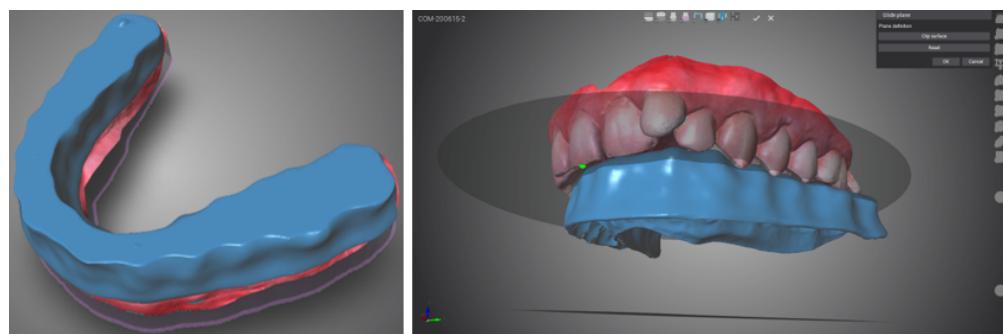
Default contour line

The bite splint contour line is now drawn automatically based on the model's insertion paths and undercuts. This default feature saves the time you used to spent drawing a bite splint line. All you need to do is to apply the small finishing touches.



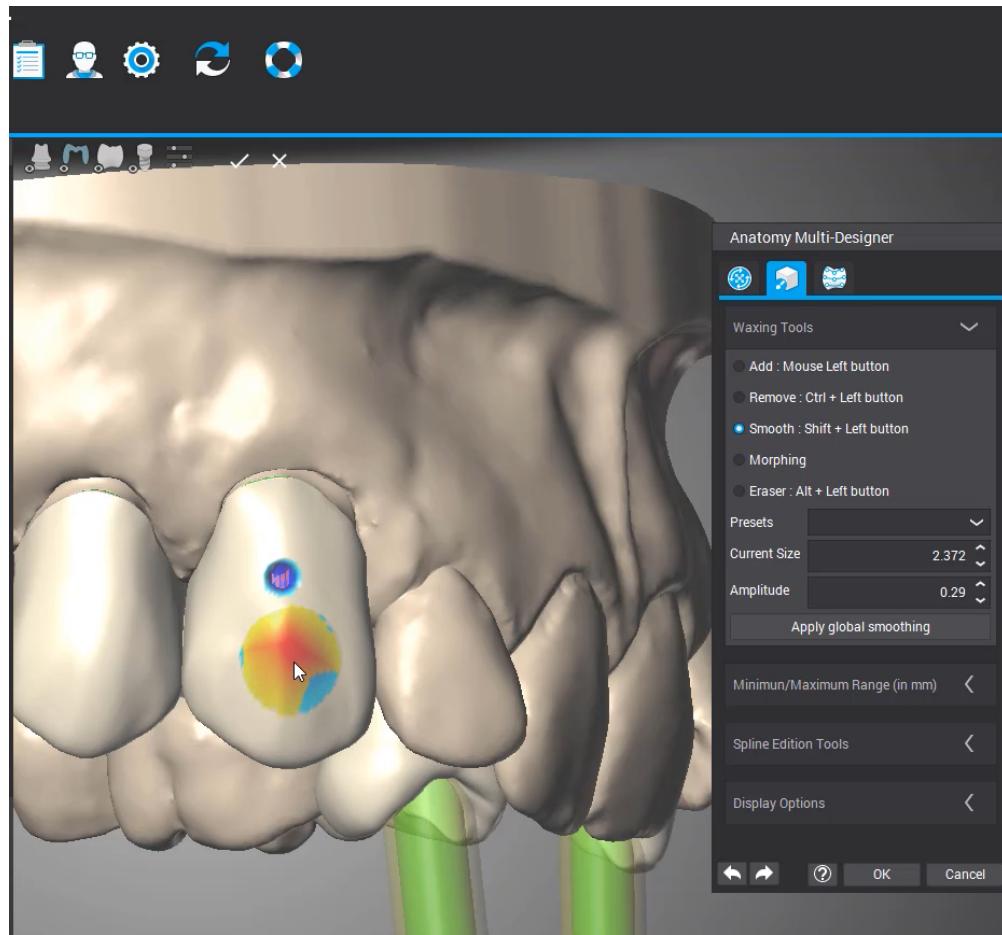
Glide Plane

You can use the brand new glide plane to create bite splints designed for cases of bruxism and temporomandibular joint disorders.



Waxing tools

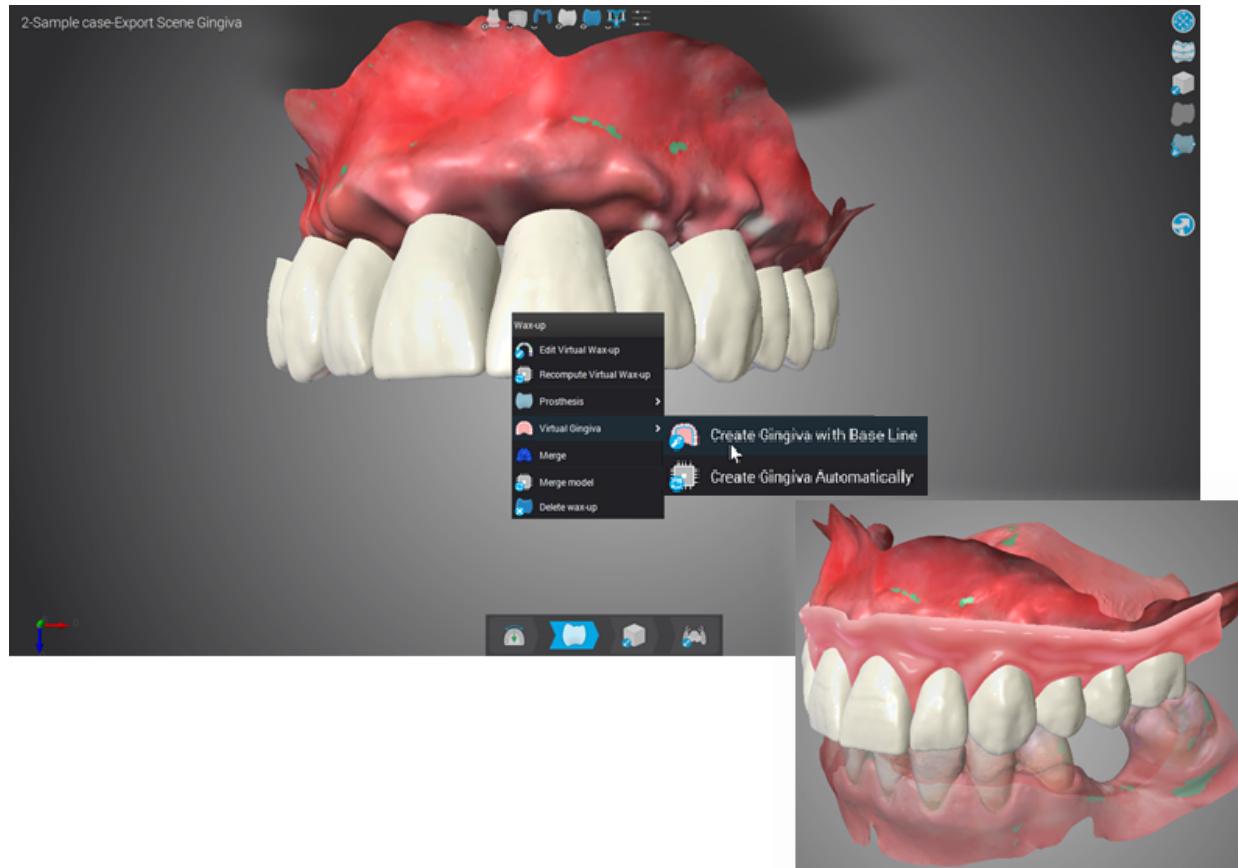
We have revamped the waxing tools performance by greatly reducing the number of mouse movements required to apply waxing and increasing precision of the mouse clicks. This overhaul boosts responsiveness and accuracy of the end results.



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Virtual Gingiva

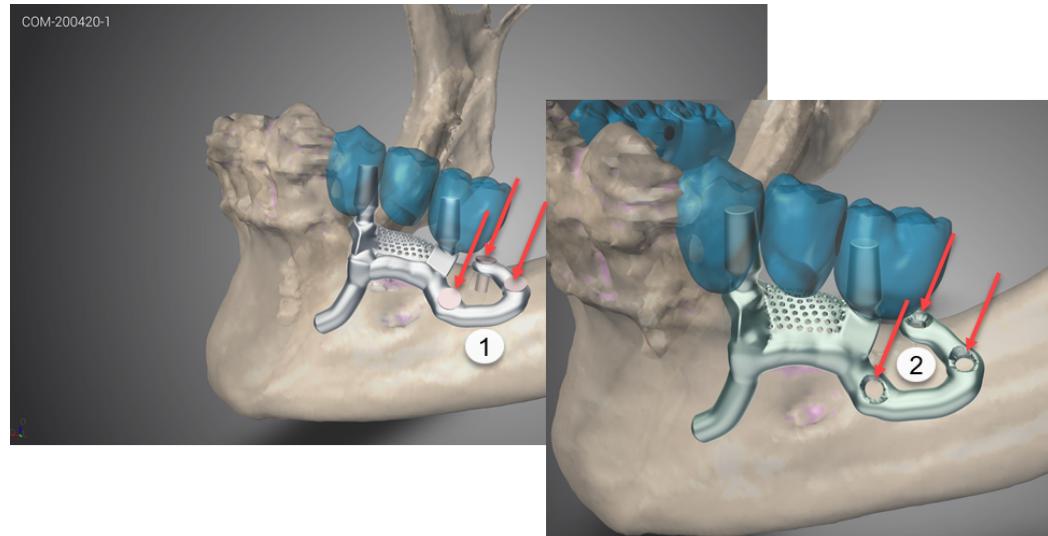
We have redesigned the virtual gingiva to better adapt to case design. It accelerates the creation of the full virtual wax-up, and the completion of the final shape.



DWOS 2020 - What's new

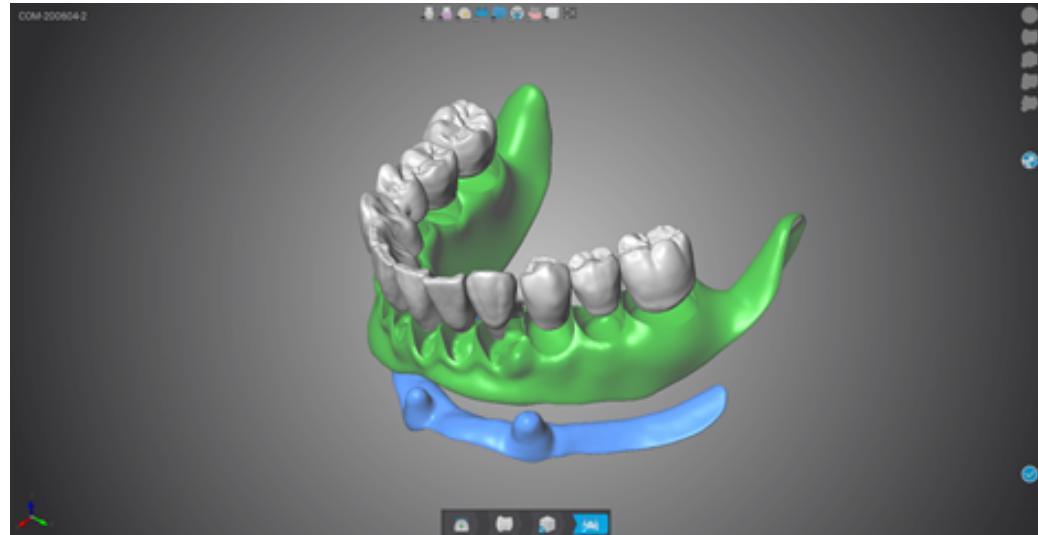
Partial design - external surface

Surfaces imported to the Partial design module can now be used both as negative and positive prints. You can alternate between the negative and the positive as long as you have not merged them to the partial element.



1 Plate screws imported as external surfaces

2 Screw holes generated when the external surface is set as negative



Combined case, bar and superstructure.

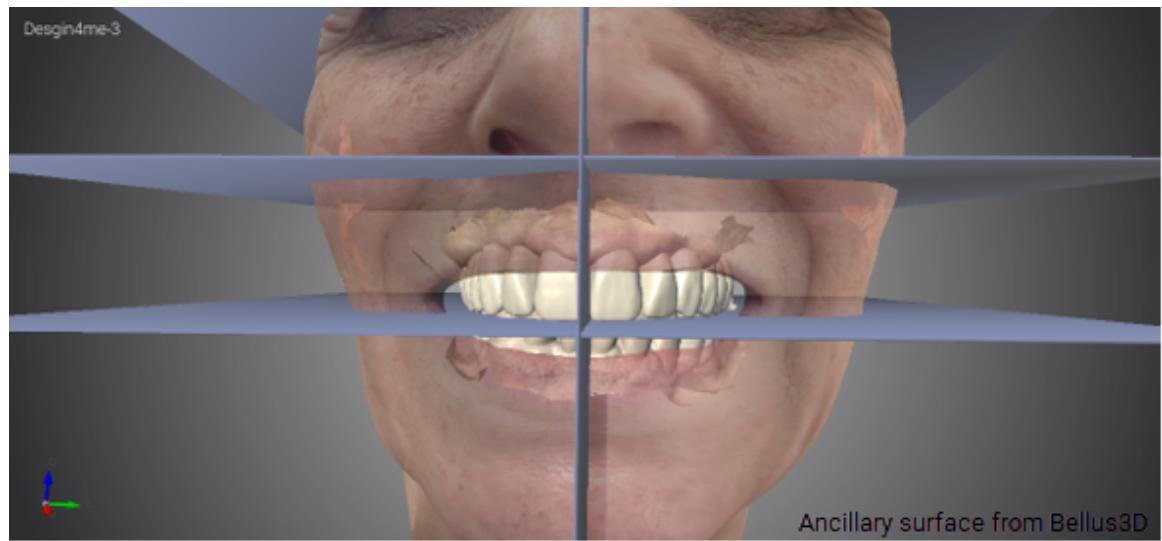
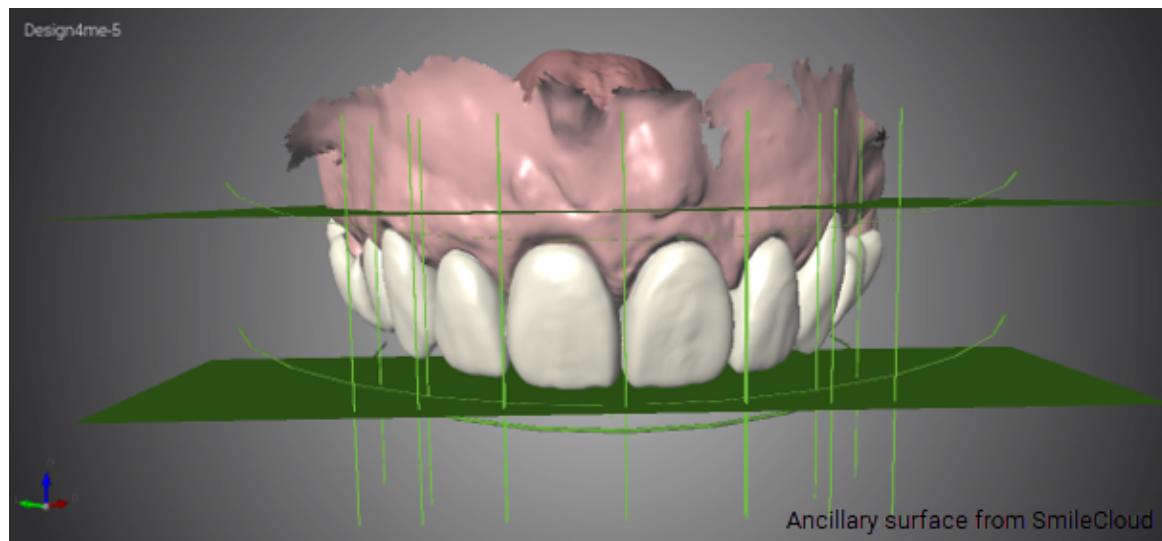
The overdenture is the external surface set as negative on the gingiva.

Other Features



Ancillary surfaces

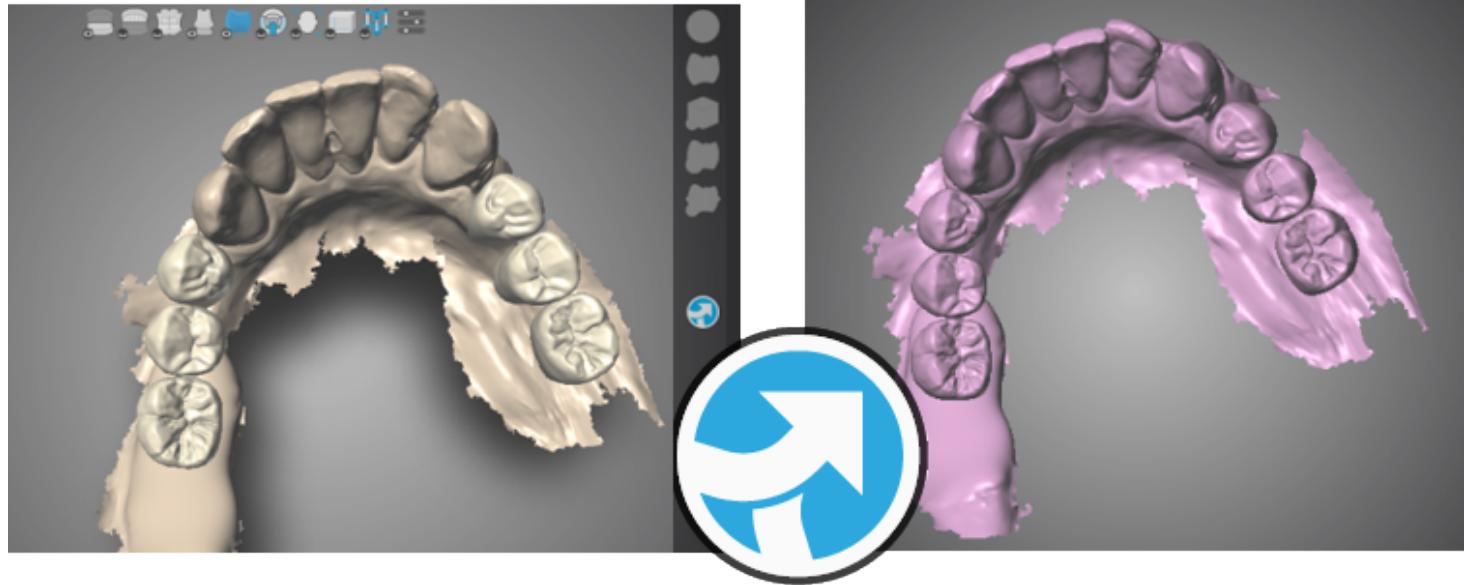
You can load ancillary surfaces and use them as frames of reference or support for your design. These can be royalty-free images or files created with other dental applications. Once loaded, ancillary surfaces can be repositioned or resized, but not merged.



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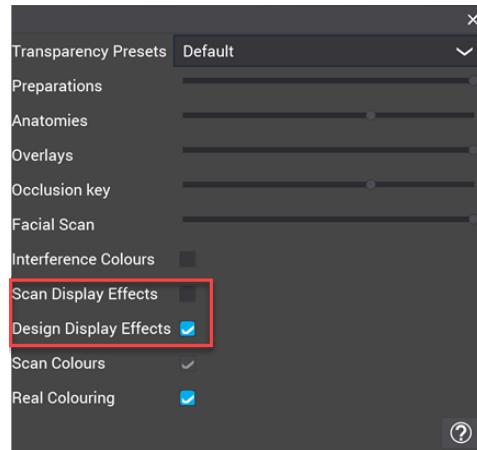
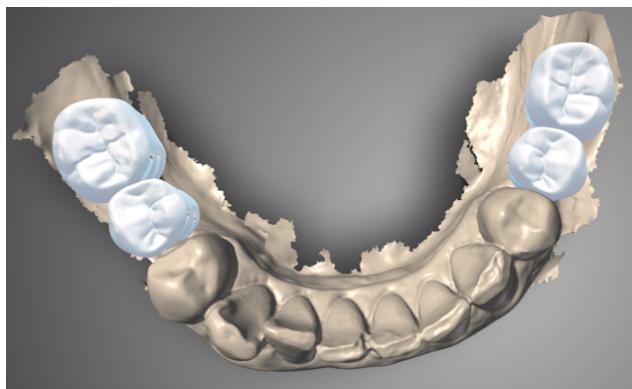
Export current view

The current view contains all the elements visible in the design station. Click the icon to export all onscreen elements in one file.



Dual display effect

You can now display the scan and restoration in different colors. Use this feature to highlight the proposed prosthesis for presentations or validations by dental practices.



DWOS 2020 - What's new

Floating scan views

To facilitate the multiscreen use, we have implemented the possibility of undocking the scan view for arch and multidie. You can thus easily run scans while dealing with a different task.



To place the multidie or arch scan view on a different screen, right-click the tab in the main view and select **Undock station**.

DWOS Easy 2020 - What's new

Anatomy position

We have redesigned the anatomy positioning tools to provide a smoother and more accurate performance, adapted for all levels of expertise.

You can use tools to obtain a ballpark placement of the anatomy using move / scale / rotate, or go even further and fine-tune the position as you see fit. We have remodeled the shape and size of the placement handles for improved grasp and enhanced flexibility when lining up the anatomy.

Ballpark placement

You can place the anatomy in an approximate position using a combination of clicks and hotkeys.

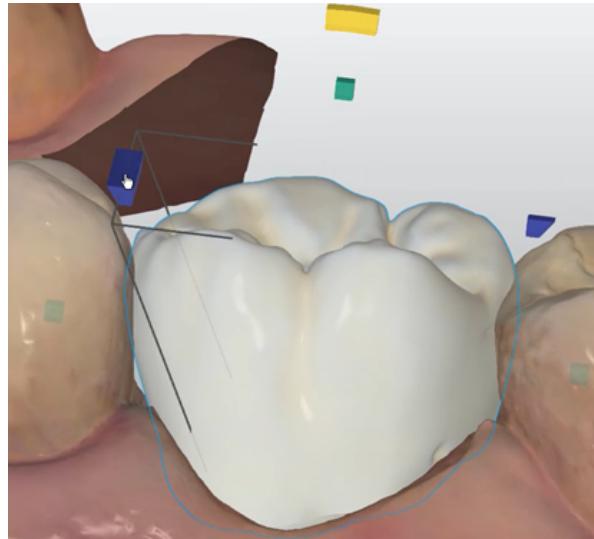
For the initial rough placement of the anatomy, you can use one of the following options:

Pointer	User action	Anatomy placement
	Left-click & hold	Move
	Left-click & SHIFT	Scale up / down
	Left-click & CTRL	Rotate

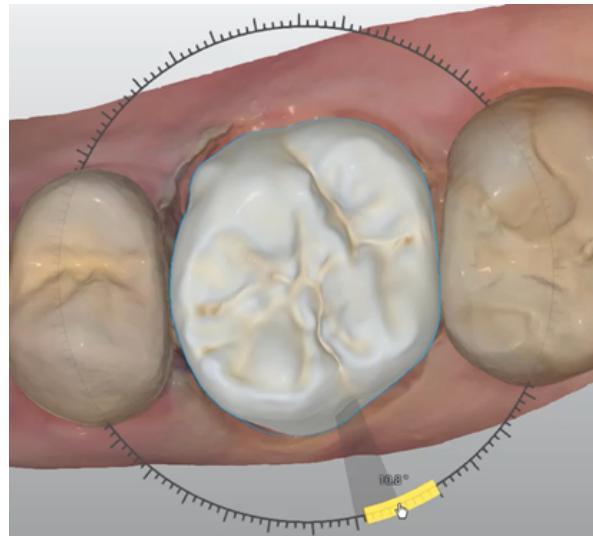
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Fine-tune placement

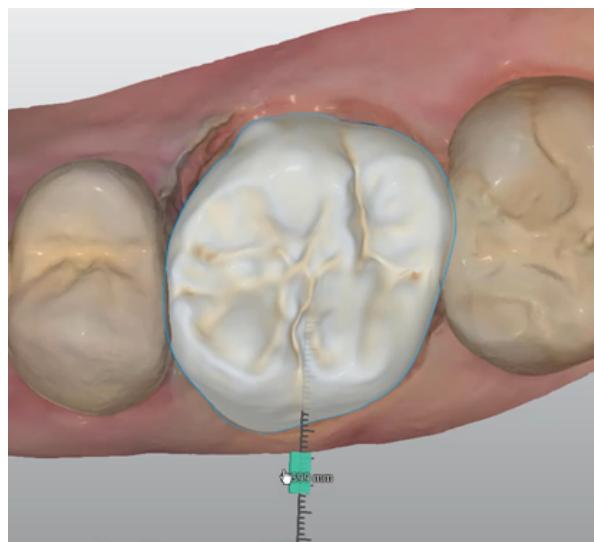
The ergonomic handles are easy to grasp and simple to use. If you add hotkeys, you are provided with an array of tools to account for all requirements. For instance, if you press CTRL while using one of the deformation handles, you can apply a symmetrical transformation.



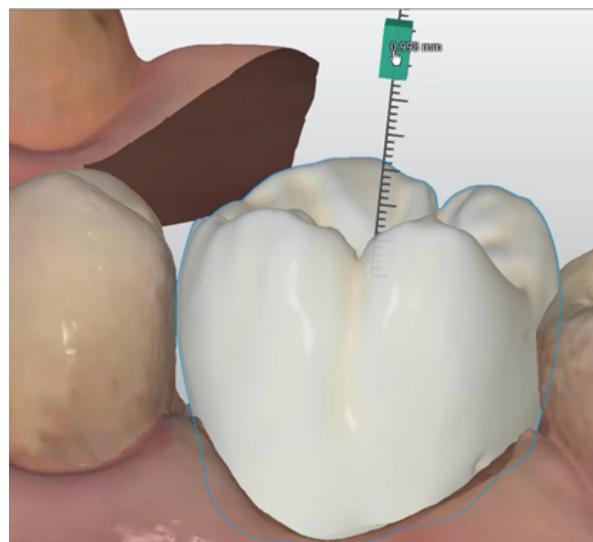
Purple handles adjust interdental spacing by modifying the anatomy wall while rotating the item on the margin line.



Yellow handles rotate item vertically or horizontally.



Green handles adjust the size of the unit horizontally or vertically.



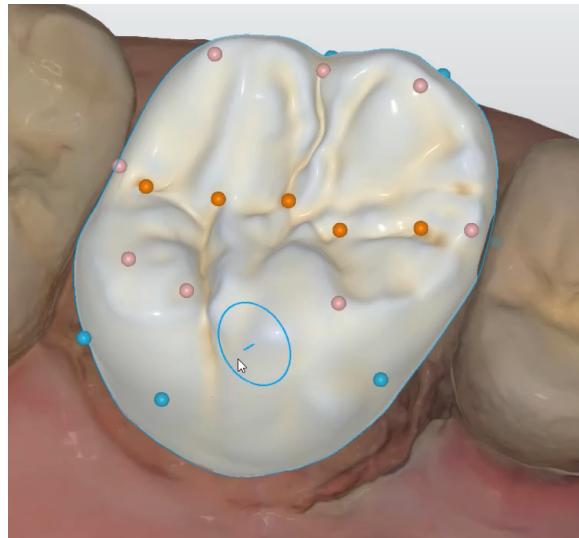
Green handles adjust the size of the unit horizontally or vertically.

DWOS Easy 2020 - What's new

Zone transform

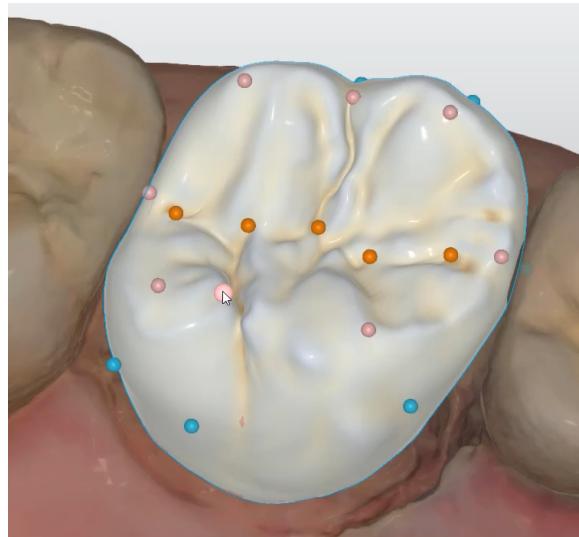
The new **Zone Transform** morphing tools are clear and easy to use for sculpting, filling, or smoothing out the surface of the anatomy. You can use handles to model the surfaces they cover, or the free transform tool to sculpt any surface you choose.

Zone transform tools



The **blue circle** shows the coverage of the free tool.

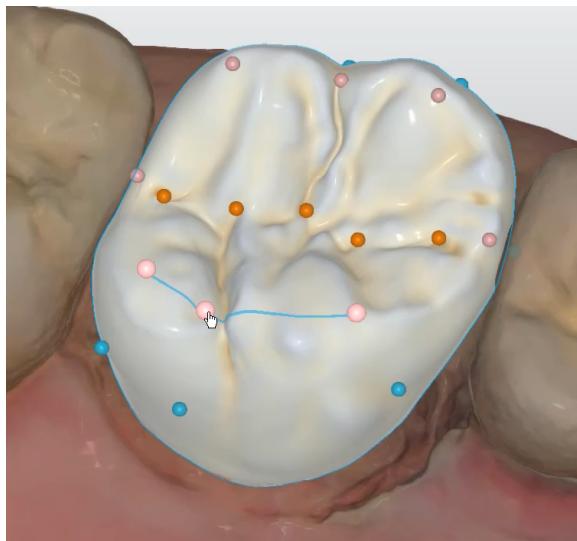
The **blue line** represents the axis of the deformation



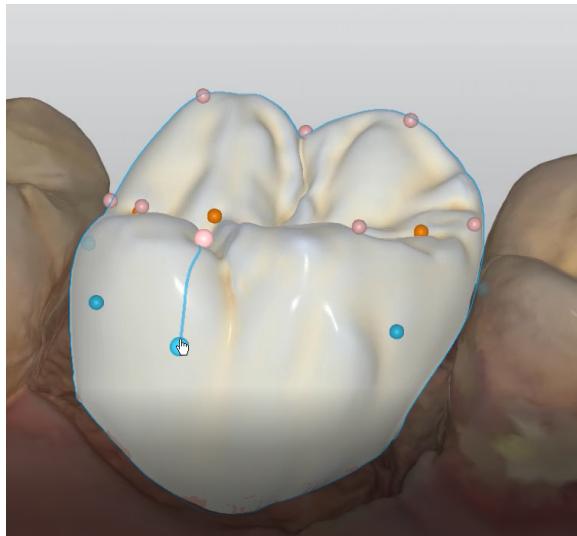
Click any handle to sculpt the surface underneath.

Press ALT to move the selected handle to a different place on the surface.

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Press SHIFT to sculpt the surface located under same-color handles color located on the same side.

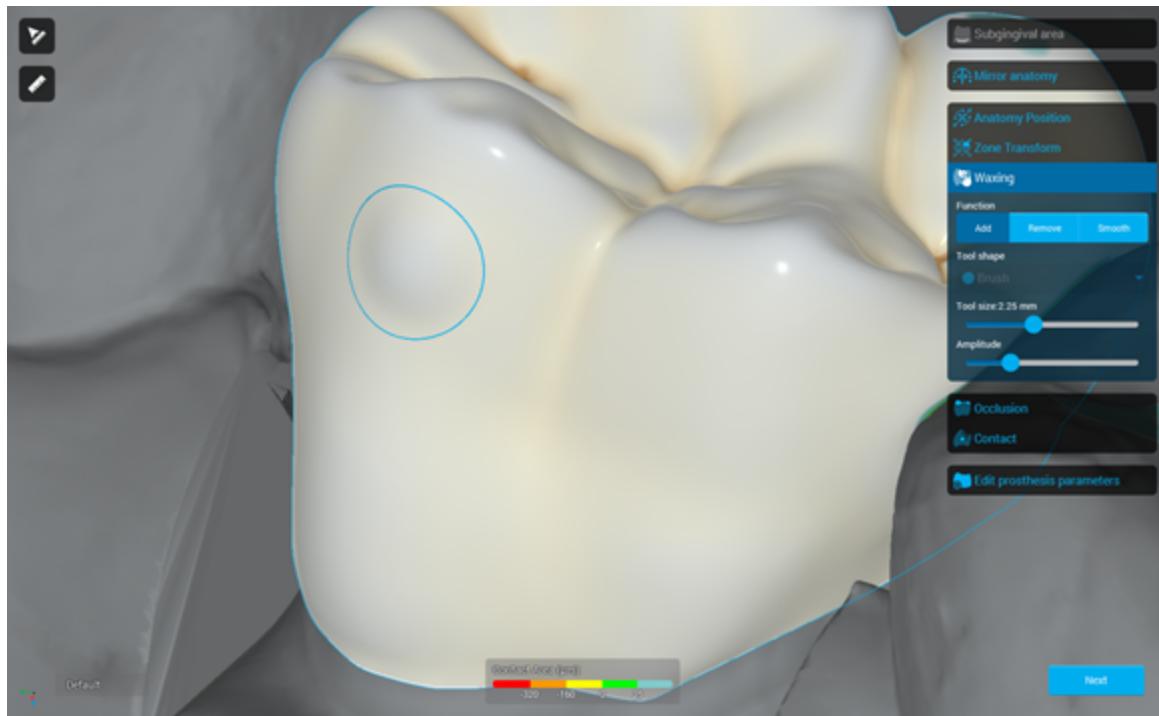


Press CTRL to sculpt the occlusal cervical surface located under handles of different colors.

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Waxing

We have revamped the waxing tools performance by greatly reducing the number of mouse movements required to apply waxing and increasing precision of the mouse clicks. This overhaul boosts responsiveness and accuracy of the end results.



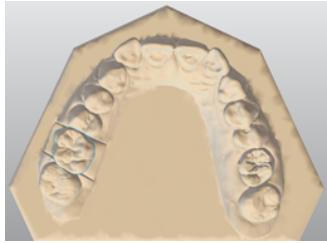
DWOS Easy 2020 - What's new

Display options

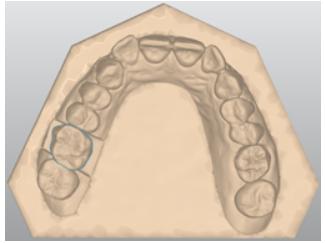
We have implemented new display options for arches, restoration, and model. You can now display the restoration in a different color for presentation or validation purposes.

Arch display options

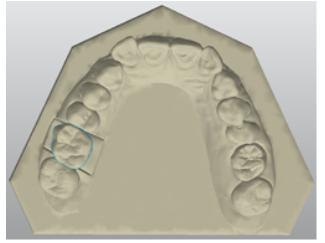
simplified



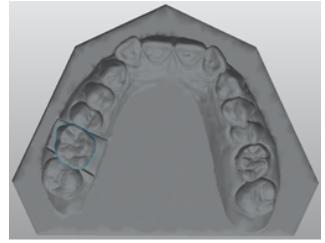
standard



plaster

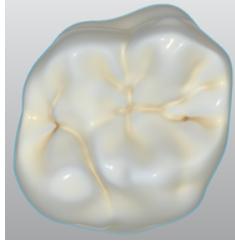


clay

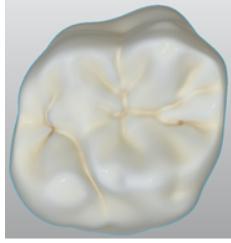


Anatomy display options

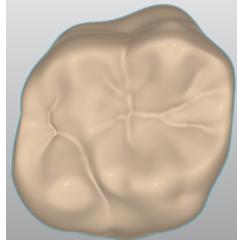
textured



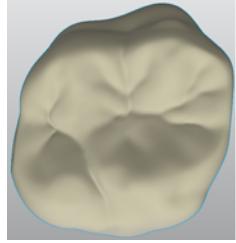
organic



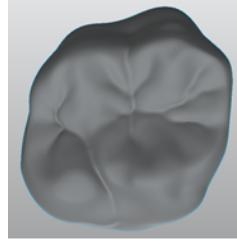
same as arch



same as arch



same as arch



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