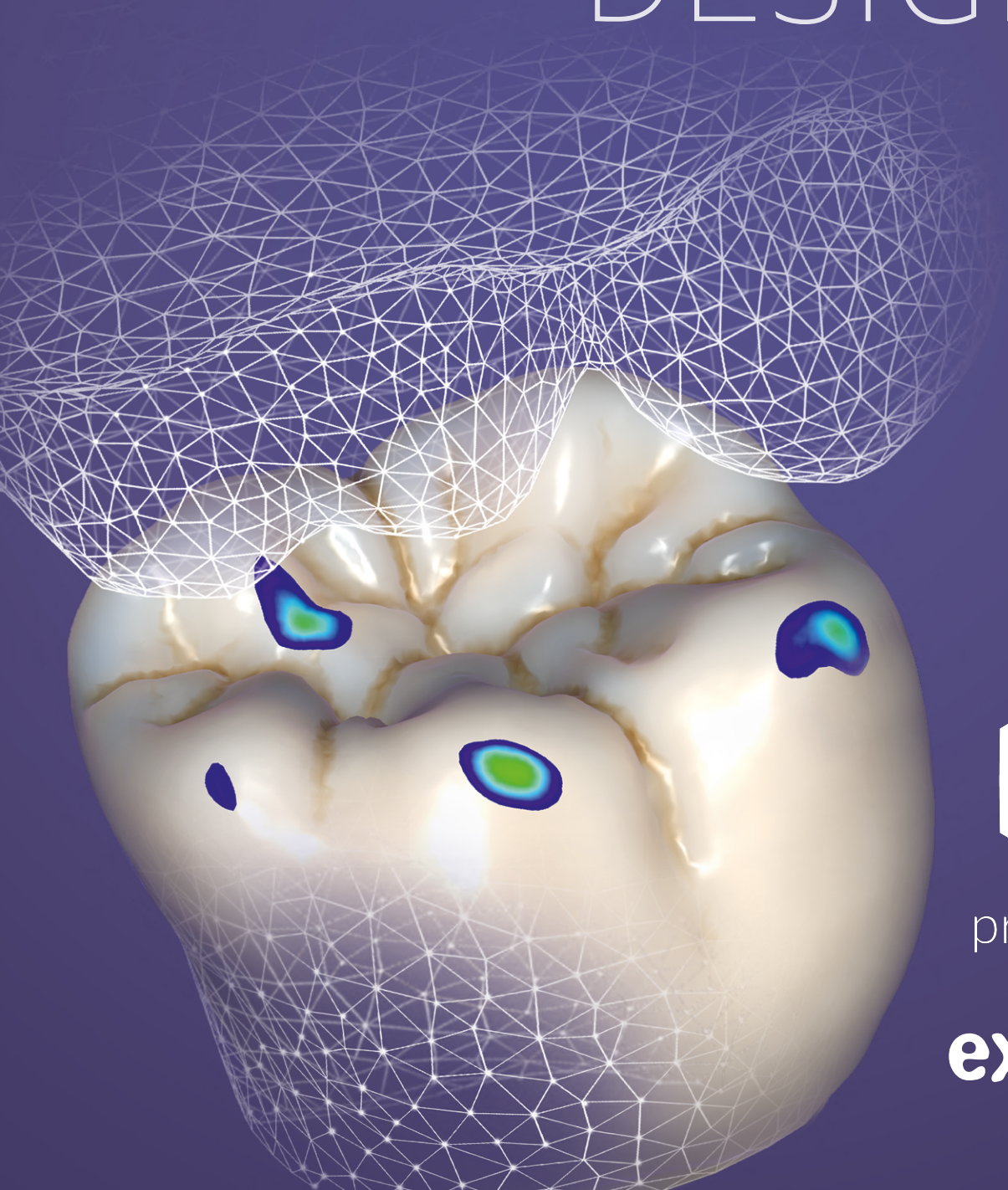
WHAT'S NEW ENGLISH

DentalCAD 3.0 Galway

NEXT-LEVEL RESTORATIVE DESIGN



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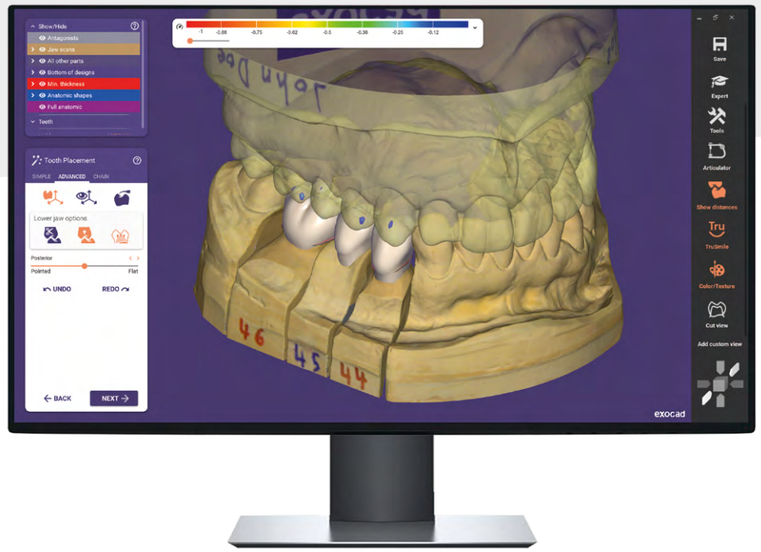
DentalCAD 3.0 Galway at a glance



You asked. We listened. Check out the broad range of new features in *DentalCAD 3.0 Galway* – our response to your requests.

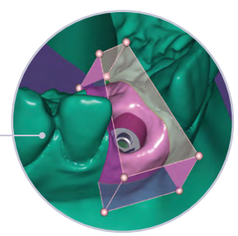
Highlights for *DentalCAD/DentalDB*

- Instant Anatomic Morphing
- Parametric Shape Adjustment
- New user interface design
- Advanced bridge connector tools
- Improved insertion direction control
- Virtual tooth extraction on optical scans

Smile Creator goes AI

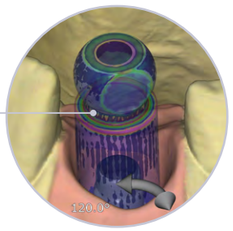
- Artificial intelligence detects facial features
- Mock-up tooth setups improve patient communication

News for *Model Creator*



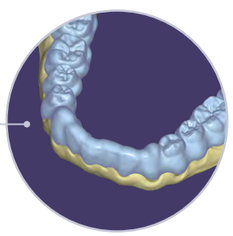
- Digital Waxup Model
- Customize and save printer presets
- Gingiva mask around removable dies for plateless models
- Flat gingiva mask base for plateless models
- Provisional crown stump models
- Improved support pins
- New attachment types, including drain holes

Improved *Implant Module*



- Mix and match compatible scan bodies and prosthetic components across manufacturers
- Visualize accuracy and control rotation
- Vastly improved controls for setting angulation of screw channels
- Switch between abutments and screw-retained designs

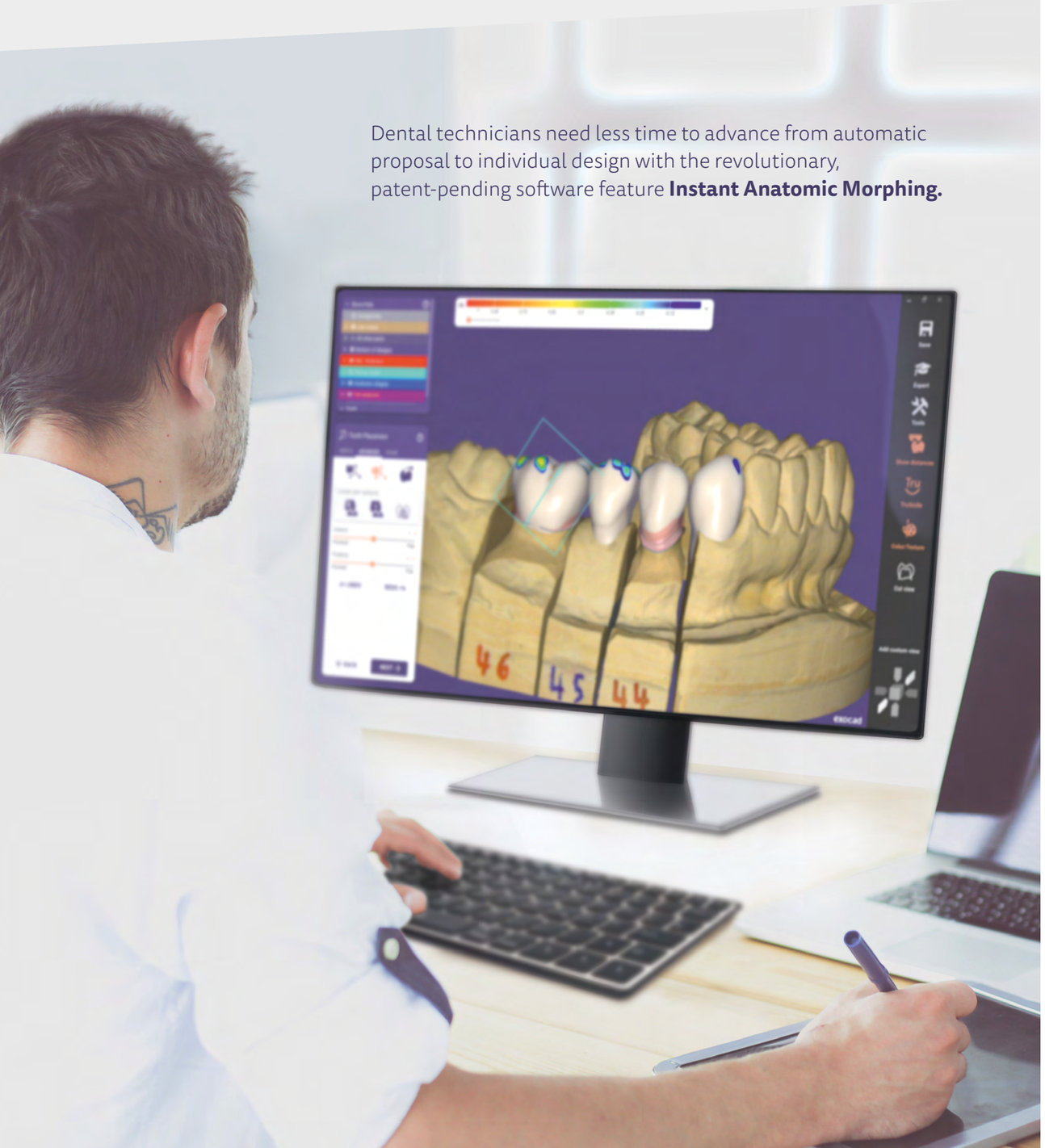
More new features



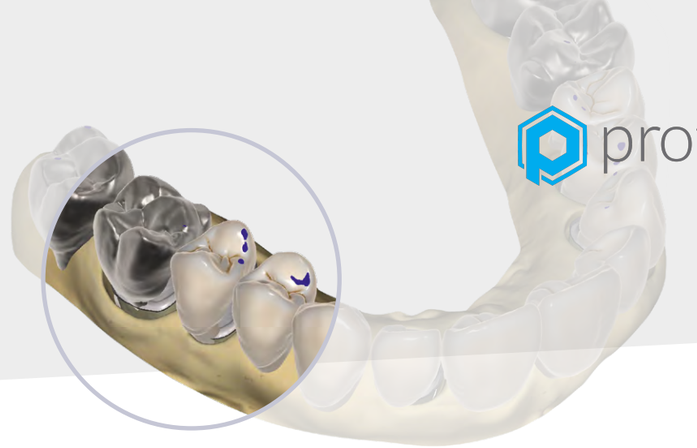
- New MyiTero connector
- *Bite Splint Module* includes tooth anatomy
- Easier and faster denture setups with new presets
- New generic denture libraries
- Virtual tooth extraction on scans
- New Library Manager
- New tooth libraries

exocad.com/dentalcad-galway

Highlights for *DentalCAD/DentalDB*



Dental technicians need less time to advance from automatic proposal to individual design with the revolutionary, patent-pending software feature **Instant Anatomic Morphing.**



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Instant Anatomic Morphing

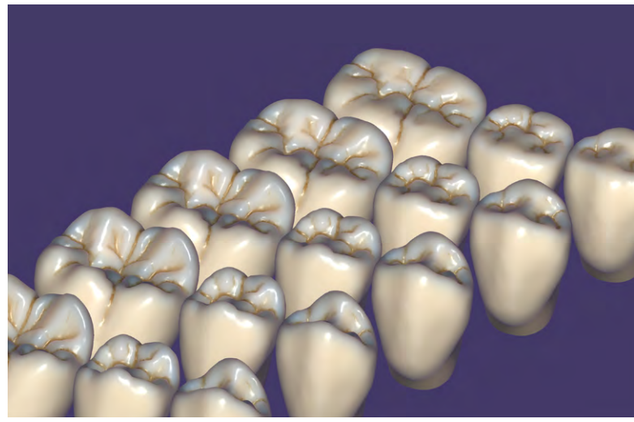
Advance from the automatic proposal to your design goal faster than ever before with this new feature. The anatomy of the teeth adjusts in real time with each movement, revolutionizing your design process.

- Instant Anatomic Morphing vastly improves the available options for the anatomic tooth placement and contains several new tools for faster and better placement of the anatomical shapes
- The entire anatomy automatically adjusts to the antagonist, either by cutting off intersections, or by dynamically adjusting the anatomy itself
- Minimum thickness is applied in real time
- Simple free-form tool available during tooth placement
- Intuitive, direction-based scaling modes now available

Parametric Shape Adjustment

Parametrically modify any existing tooth library – from deep fissures for a younger anatomy to flat fissures and cusps that are more suitable for an older anatomy. Seamlessly apply a natural abrasion to all selected teeth.

- Easily adapt all integrated tooth libraries from a younger to an older anatomy
- Sliders adjust the abrasion of the selected tooth library simultaneously
- Modify anterior and posterior teeth separately



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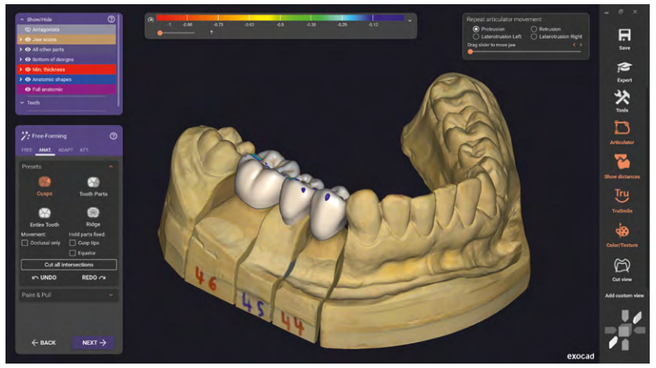
New UI design

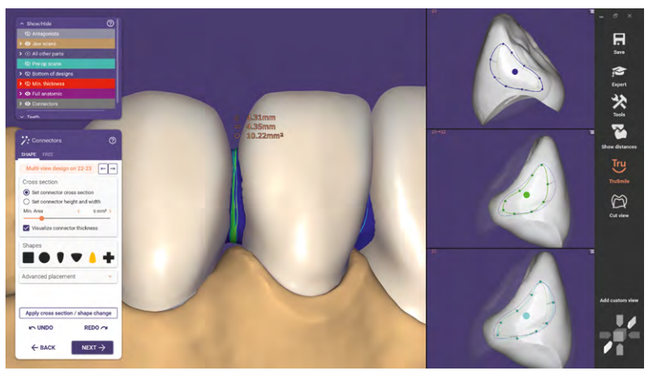
The new exocad user interface offers a user-centered design to make digital interaction as simple, intuitive and efficient as possible.



- Inspired by Google's Material Design*
- Makes the software as easy to use as an app on your smartphone, while experienced exocad users still feel at home with this release in its fresh design
- New dark mode available

* Google is a trademark of Google Inc.

Advanced bridge connector tools

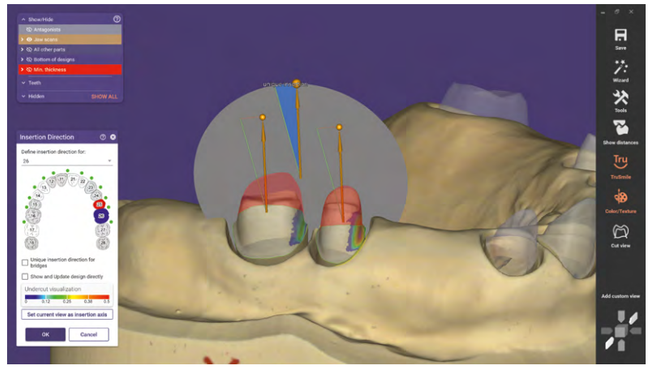


Improved bridge connector editing with split screen view and tools to change several connectors at once, for a faster workflow in every situation.

- Activate three additional cut views in the bridge connector step for better control over the connector's three control curves
- Easily copy designed connector shapes to other connectors
- Use the regular hotkeys to edit connector shapes faster and more effectively

Improved insertion direction control

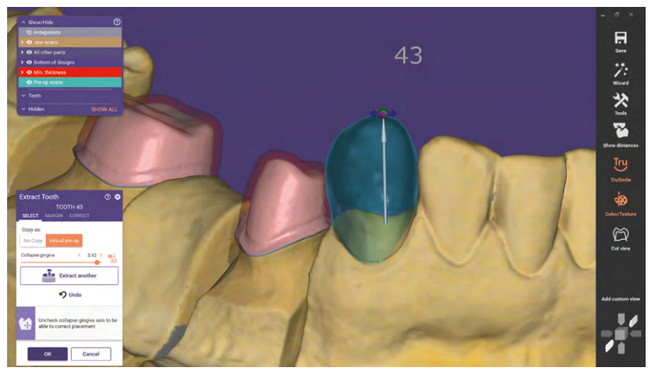
New tools in the insertion direction dialogue offer more control over each individual insertion axis.



- Easily change path of insertion with a draggable arrow
- Angle-display disc shows the tilt angle
- Easily see changes – thanks to before and after visualization during editing

Virtual tooth extraction on optical scans

Teeth can be extracted virtually from optical scans. With a single click, a tooth can be marked and then removed. This is useful in a variety of situations – for example, with implant planning.



- Quick, easy and robust extraction
- Complete freedom to spontaneously use this feature even in an ongoing workflow
- User-defined adjustment of expected gingiva collapse after extraction. Quickly and easily change the shape of gingiva in the area of the extracted tooth
- Use extracted tooth as pre-op scan or tooth model for later anatomic design

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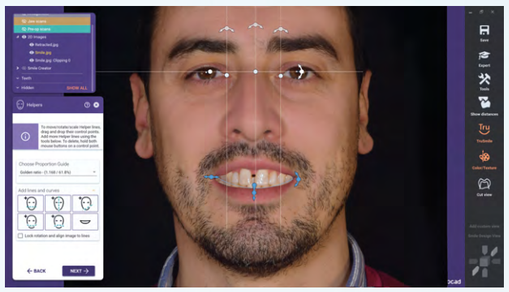
Smile Creator goes AI



Artificial intelligence detects facial features

Facial features are automatically detected to generate the smile design and create an esthetic proposal faster. This, along with many other new features and improvements, saves valuable time while designing smiles with *Smile Creator*.

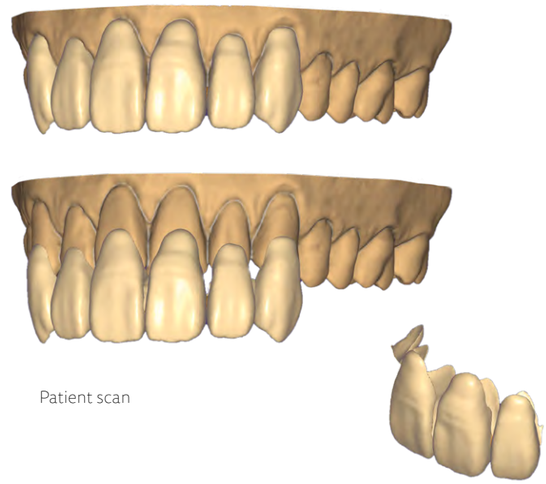
- High automation without sacrificing flexibility and full design control
- Easier color selection and improved brightness control enable faster loading of the esthetic preview
- Save side-by-side comparisons of both pictures with new ‘save image’ tools
- Automatic proposals for patient’s eye detection and lip line

Mock-up tooth setups improve patient communication

Open up new possibilities in patient consultation with the *Smile Creator**.
Print clip-ons and let patients physically try out their new smile.

- Create a clip-on mock-up of the planned anatomic solution from within the workflow for a printable try-in that wraps around the patient’s teeth
- Place the finished product on the patient’s teeth for an initial fitting of the tooth shapes
- Designs can be added to the original scan data to create printed waxup models

* This feature does not work with the *Smile Creator* stand-alone module



Patient scan

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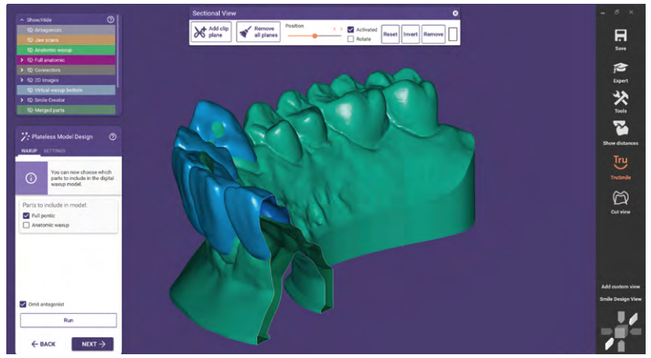
News for *Model Creator*

Digital Waxup Model

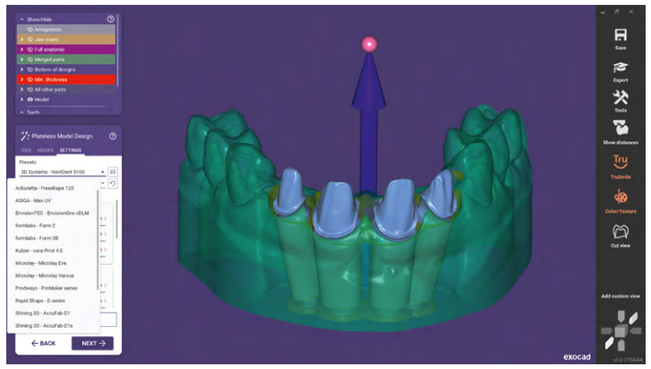
Create complete, watertight waxup models based on your designs, with no overlapping boundaries, which can be used with open 3D printers.



- New model type ‘Digital Waxup Model’ allows the design of models with designed anatomic shapes or finished designs on top
- The new ‘waxup’ tab features a wizard workflow that applies user-specified components to the model
- The final model is completely watertight and free of overlap or intersections

Customization for different printers

DentalCAD 3.0 Galway features printer presets for all leading 3D printer manufacturers. Customize and save individual printer presets, based on your experience and requirements.



- New button in model design step enables the user to customize printer presets to meet their individual needs
- Newly saved presets can be selected in future model designs, ensuring the same parameters for all designed models
- Supports more printers and provides automatic installation options when an integrated printer is detected

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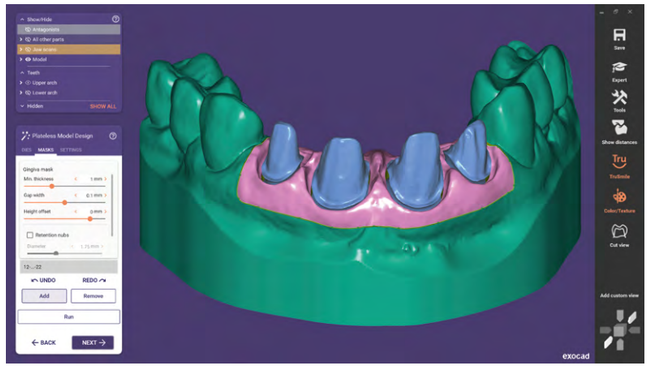
Gingiva mask around removable dies for plateless models

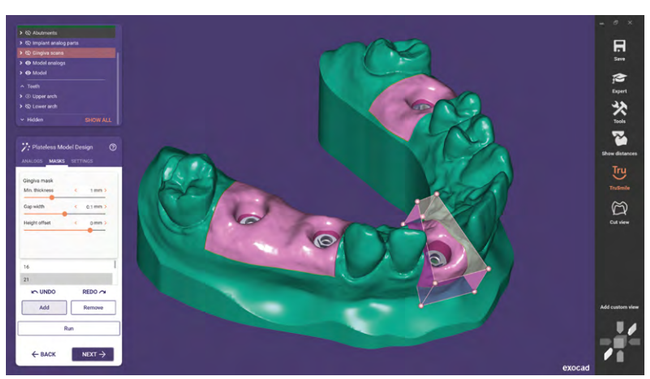
Create soft gingiva masks around prepared dies even without implant analogs and take esthetic anterior designs to the next level, giving the user control over the pressure of the bridge pontics on the soft tissue.



- New ‘masks’ tab is now available for models without implant analogs, providing the ability to draw a gingiva mask around prepared dies

Flat gingiva base for plateless models

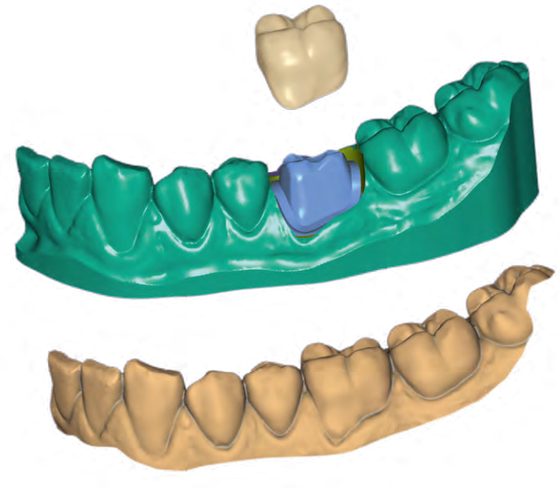
Design 3D printer-friendly soft gingiva masks with a plane, flat base for lab analogs and stumps of any size, using an intuitive and versatile placement tool.



- New model plate type available – ‘plateless model (gingiva masks flat)’
- Select the desired area with simple controls to reshape the bounding box
- Flexibility to add additional control points, change the height, and re-angulate the surface

Provisional crown stump models

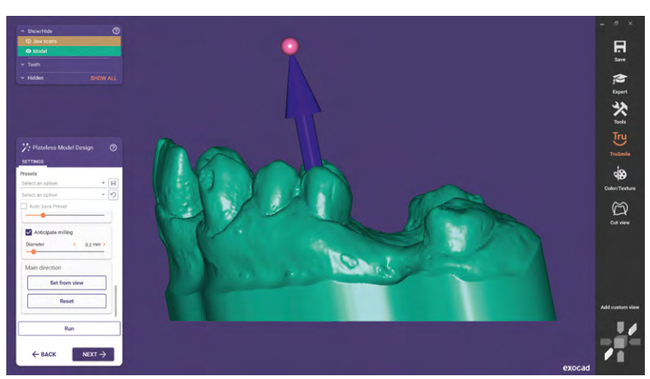
Create models with prepared dies based on your design of eggshell provisionals individually for each situation, as a basis for preparation helpers or as a tool for your manual finishing steps for the crowns



- Replicate the internal surface of a designed provisional restoration to include in the model
- Model creation options include the original tooth shape, the designed provisional or the virtually prepared stump

Set model base direction

Set the direction of the model base to a different axis than the actual scan. This allows the compensation of natural tilt, resulting in more practical and beautiful models, while saving material.



- Change the model base direction independently from the general model direction
- Use the new axis control or set the model base direction from your point of view
- Removable dies flat base also adapts to model direction

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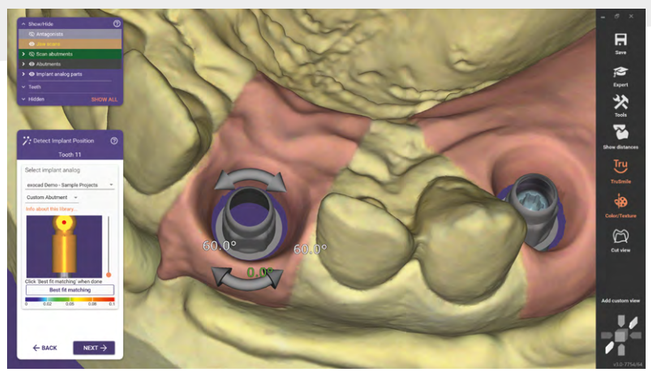
Improved *Implant Module*

Visualize accuracy and control rotation

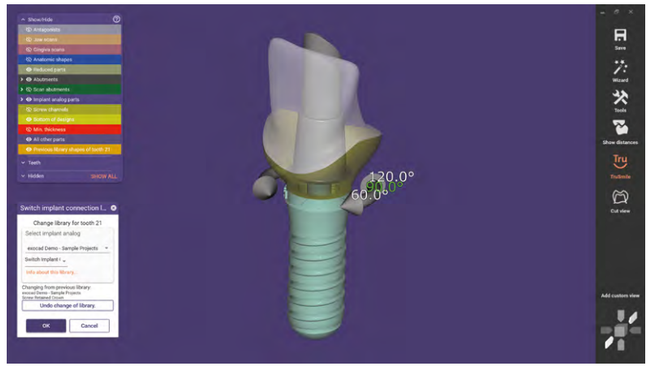


- Rotate the abutment components to the allowed positions defined in the library

Rotate the abutment connection based on the implant library used to set up Ti-bases and angulated abutments for an optimal prosthetic result. This is useful for angulated abutments or Ti-bases where the rotation lock may induce problems with design thickness. Now placement of scan bodies in the scan is possible based on convenience, independent of desired rotation of the Ti-base.

Mix and match compatible scan bodies and prosthetic components across manufacturers*

The implant connection can now be changed within compatible implant libraries even after finishing the abutment design. Switch to a Ti-base as long as it is compatible with the originally selected implant type.

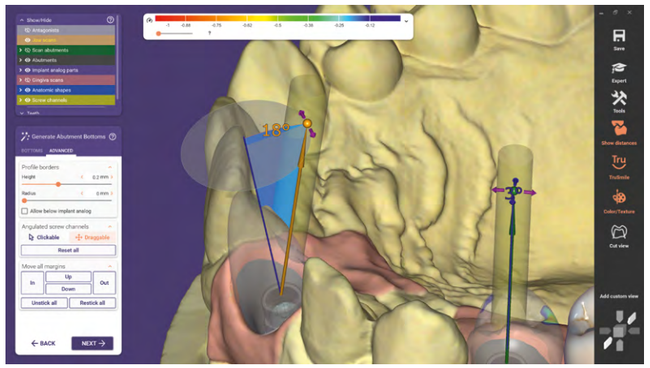


- Switch between compatible implant components
- Switch implant type between ‘Custom Abutment’ and ‘Screw Retained’
- If you want to switch to a Ti-base and the originally selected implant type is compatible, there is no need to restart the design

* Only with supported implant libraries

Vastly improved controls for setting angulation of screw channels

Adjust screw channel angulation more easily than ever before. The axis of angulated screw channels can now be changed, not only by clicking on your design but also with a draggable arrow, showing you exactly the degrees of angulation and giving you full control of the specific channel direction.



- Choose the direction of the screw channel with more detailed information
- Angular changes are depicted by a plane with the deviation in degrees
- Control the direction and the change of angulation independently

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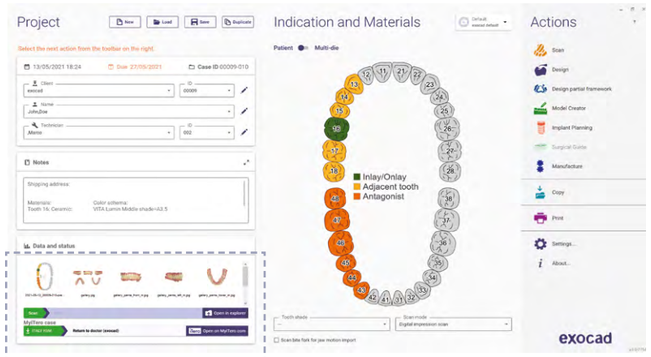
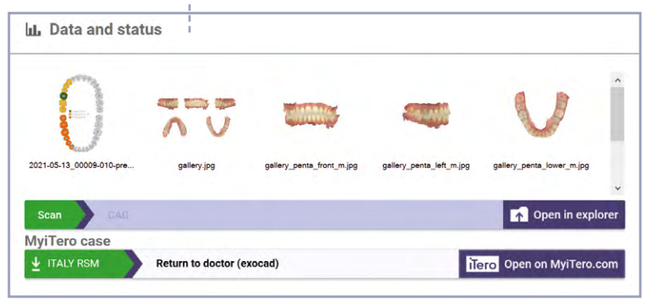
More new features

MyiTero connector

As an exocad user, MyiTero connector gives you an easy and integrated way to directly receive intraoral scan cases from thousands of doctors worldwide. Be ready to design in just one click after connecting your lab's iTero account and exocad software.* *DentalCAD* users can request MyiTero access.

See **exocad.com/integration/myitero**





- Automatically import iTero scan and prescription information into exocad's DentalDB
- Use the embedded return to doctor function
- Launch MyiTero.com to utilize iTero services

* Not available in all countries

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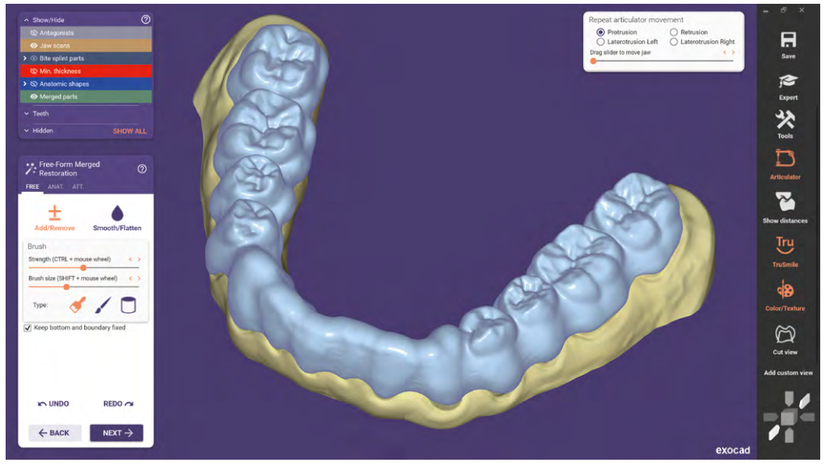
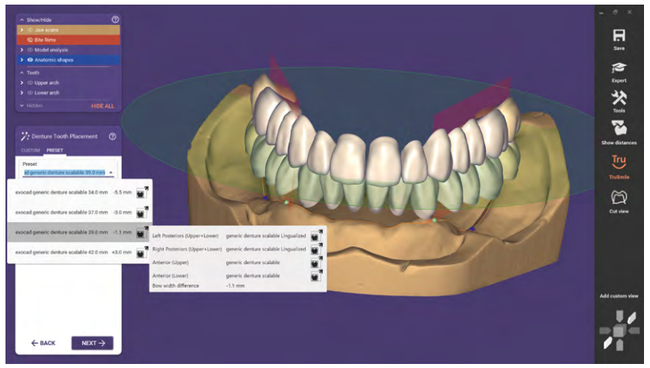
Bite Splint Module: splints with anatomic shapes

Add tooth shapes directly to your designed bite splints to better design tabletop structures or anatomic splints supported by the *Virtual Articulator*.



Full denture setup presets

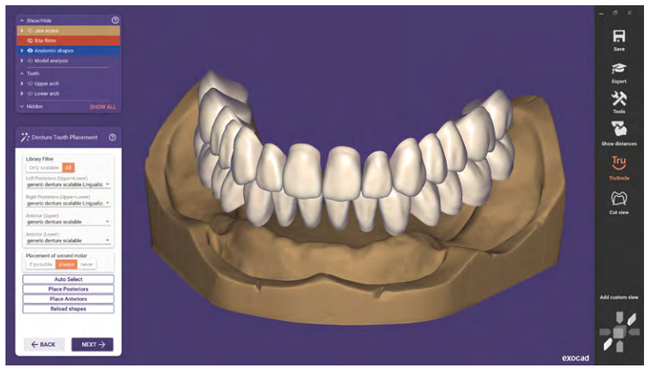
Benefit from the included tooth setup presets from the generic tooth lines with optimally positioned teeth. Our extensive library covers a wide range of patient situations which greatly reduces the need for patient-specific setups. The setup library is actively maintained and updated. Users with upgrade contracts always have access to the latest presets.



- Users require significantly less time for optimal denture setups with exocad presets
- High-quality presets are made by experienced denture tooth designers
- Add a personal touch to your lab's work by creating your own presets library

New generic denture libraries

A completely revised generic tooth library for full dentures provides more options and more accuracy to meet the specific requirements of full denture designs.



- The generic tooth libraries now follow a lingualized occlusion type, in many cases better suited for full dentures
- All tooth shapes now have a reduced, smoother basal area for easier insertion into the gingiva base design
- The generic library comes in five different sizes for non-scalable workflows and one additional scalable version

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More new features

New Library Manager

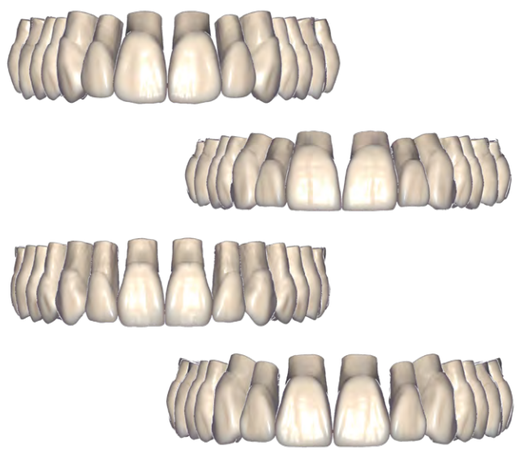
With the Library Manager function, library installation for *DentalCAD* is easier than ever before. Install or update libraries directly from within the exocad software – no need to manually download, unpack and install libraries.

- After starting the Library Manager, the desired libraries are selected directly within CAD
- All selected libraries are automatically downloaded, stored in the corresponding folder and installed
- No manual entry of the license number in the download portal is required

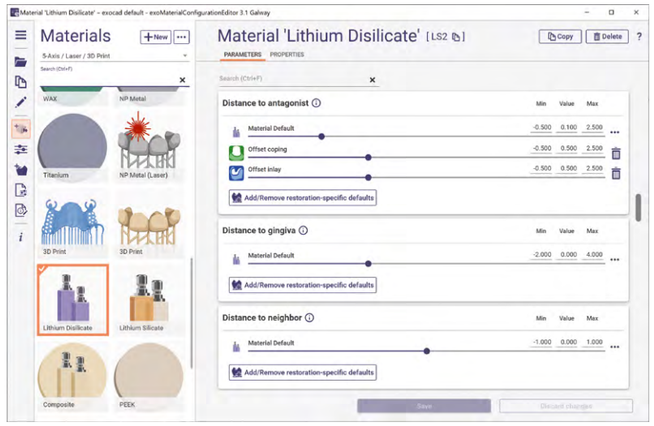
New tooth libraries

The tooth library includes new entries from our community members Anatoly Mishin and Robert Davtyan.

- New, beautiful and functional natural tooth libraries added: Robtoly-oval, Robtoly-square, Robtoly-triangular and Robtoly-unique – each with an individual set of anterior and posterior shapes



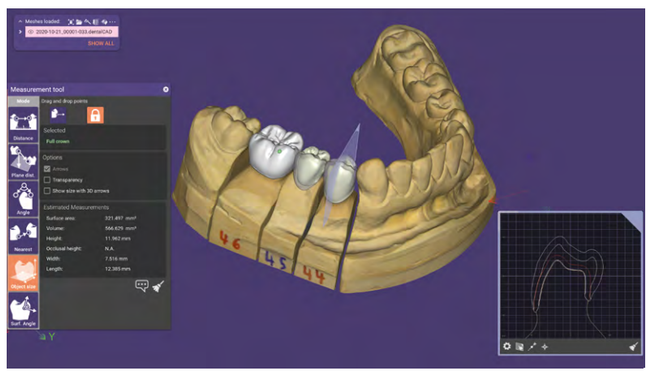
New WorkParamConfigTool – easier management of materials and parameters



- A completely redesigned WorkParamConfigTool makes it even easier for you to create custom *DentalCAD* parameters and materials
- The improved tool is easier to understand and contains an expert mode with new options
- Config files can be loaded and saved individually for a more precise and faster workflow when creating your custom parameters

Improved ExoViewer 3D

ExoViewer 3D now includes a plethora of tools and functionalities for a variety of applications. Many of *DentalCAD's* familiar tools can now be used here.



- Load and save scenes
- New added functions like measurement tools, cut view option and the magic lantern allow you to analyze personal scenes
- New option to show grid as overlay instead of background
- Option to show surface normal
- New screenshot option