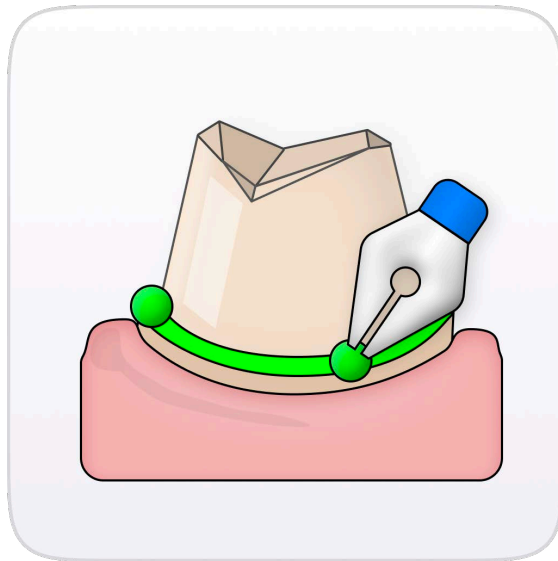


Margin Lines



Version 1.0
December 2022



Medit Margin Lines

Version 1.0 (December 2022)

Table of Contents

Getting Started	1
Medit Margin Lines Overview.....	1
Intended Use and Disclaimer	1
System Requirements	2
Installation Guide	2
Running Medit Margin Lines from Medit Link	4
Data Management	5
Acquiring 3D Data.....	5
3D Data Control	6
Saving Margin Lines	7
User Interface	9
Title Bar	9
Data Tree	10
Action Control	10
Teeth List	11
Viewing Tools	11
Margin Line Tools	12
How to Draw Margin Lines	13
Auto Creation	13
Manual Creation	15
Editing	18

Getting Started

Medit Margin Lines Overview

Medit Margin Lines is an app designed to help you quickly create precise margins on already processed data from Medit Scan for Clinics. With this app, you no longer need to return to the scan acquisition program just to work on margin lines.

The app provides all necessary tools for manual and automatic margin line creation and editing of the existing ones. Once saved to the Medit Link case, they can be further used in any Medit software or exported to other CAD along with the scan data.



Medit Margin Lines only supports data captured in the Maxilla and Mandible stages and processed in Medit Scan for Clinics.

Intended Use and Disclaimer

1. Medit does not take any responsibility or liability for any misunderstandings or improper usage of the application.
2. Medit Margin Lines is not developed for medical or clinical use. The software may not be used for the following purposes:
 - For the purposes of diagnosing, treating, mitigating, or preventing diseases.
 - For the purposes of diagnosing, treating, mitigating, or preventing injuries or disorders.
 - For the purposes of inspecting, replacing, or transforming a structure or function.

System Requirements

Windows

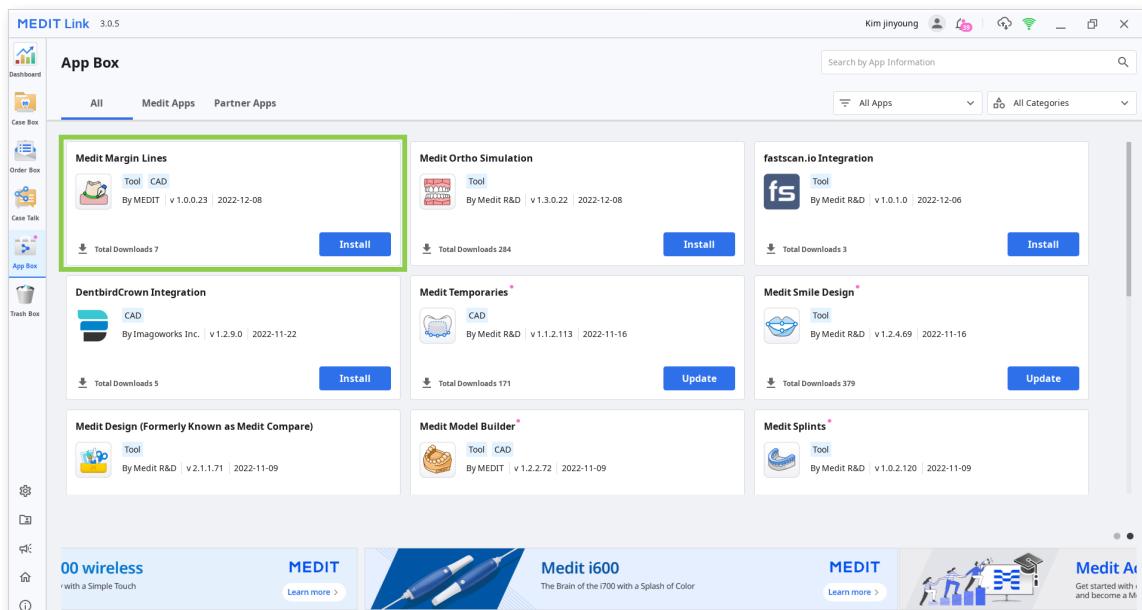
CPU	Intel Core i5. 2.6 GHz or higher
RAM	16GB or higher
Graphics	NVIDIA GeForce GTX 1060 (2GB) or higher
OS	Windows 10 64-bit, Windows 11 64-bit

macOS

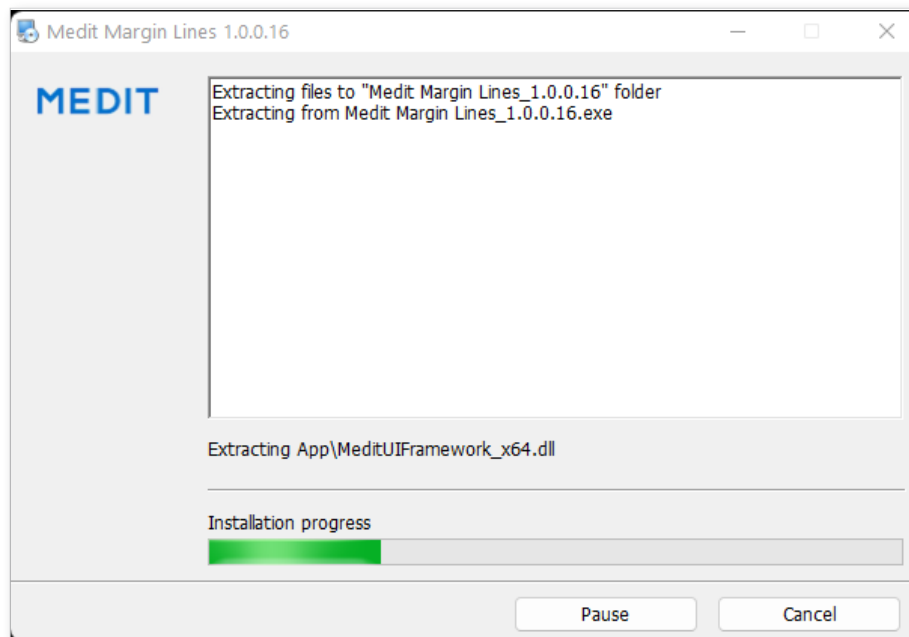
Chip	M1/M2 or higher
CPU	8-core or higher
RAM	16GB or higher
OS	Monterey 12

Installation Guide

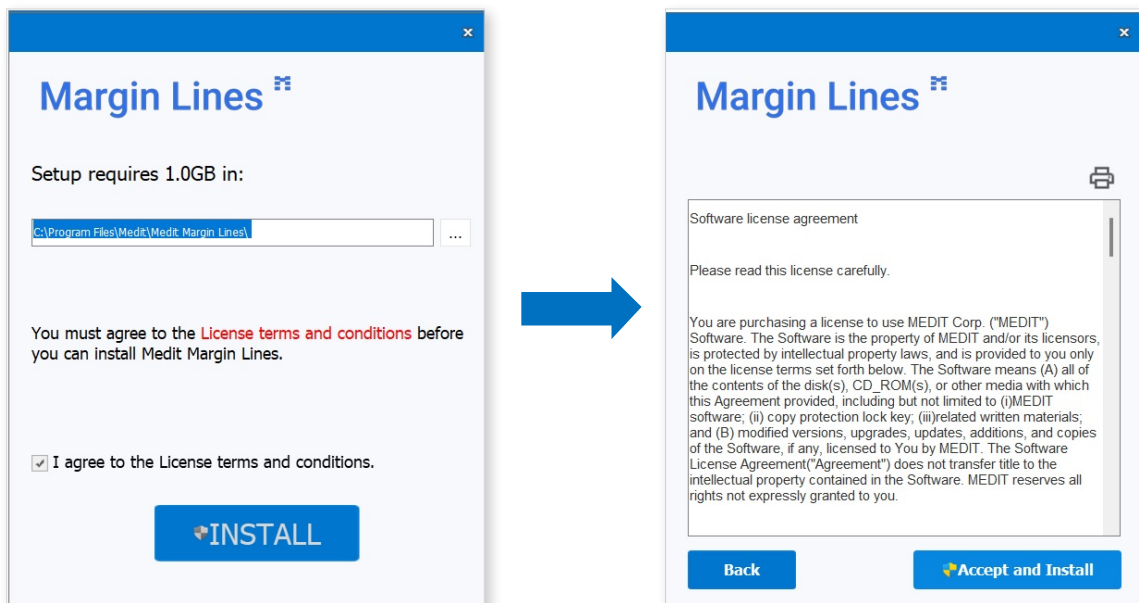
- ① Log in to your Medit Link account and go to the App Box.
- ② Find the Medit Margin Lines app and click “Install.”




- ③ Once the download is complete, the app installer will run automatically.



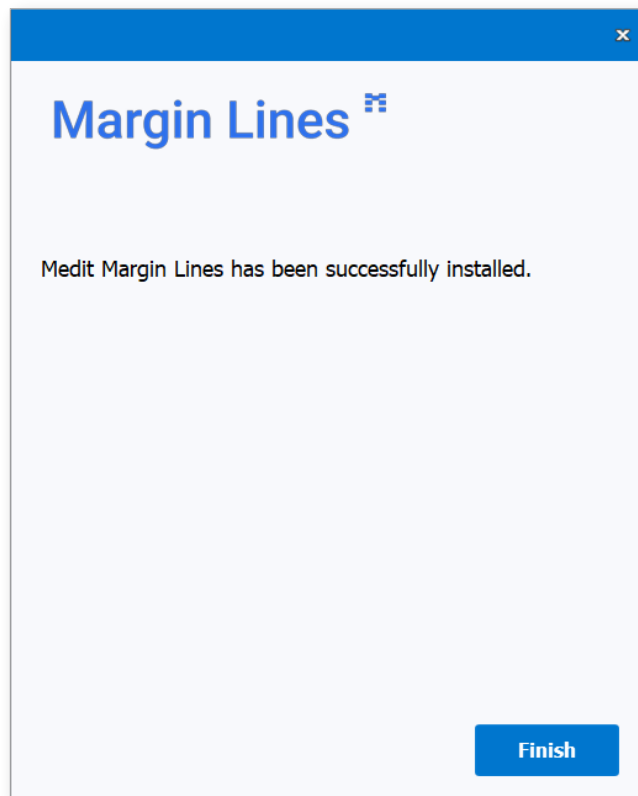
- ④ Read and agree to the License Terms and Conditions to continue.



- ⑤ It may take several minutes to finish the installation process.

 Do not turn off the PC until the installation is complete.

- ⑥ Click "Finish" to complete the process.



Running Medit Margin Lines from Medit Link

Follow these steps to run Medit Margin Lines from Medit Link.

- ① Go to Case Box (Clinic account) or Work Box (Lab account) and select the case you would like to open in the app.

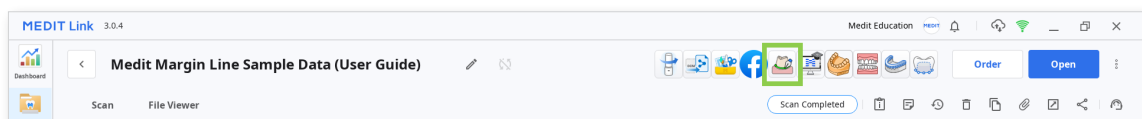


Check your scan data. You cannot use pre-op or attached data.



Note that you cannot add or change margin lines in ordered cases (cases with Order ID). To use that case, try cloning it.

- ② Click the Medit Margin Lines icon in the top right corner of the Case Detail window. The icon will automatically appear once you have installed the app.

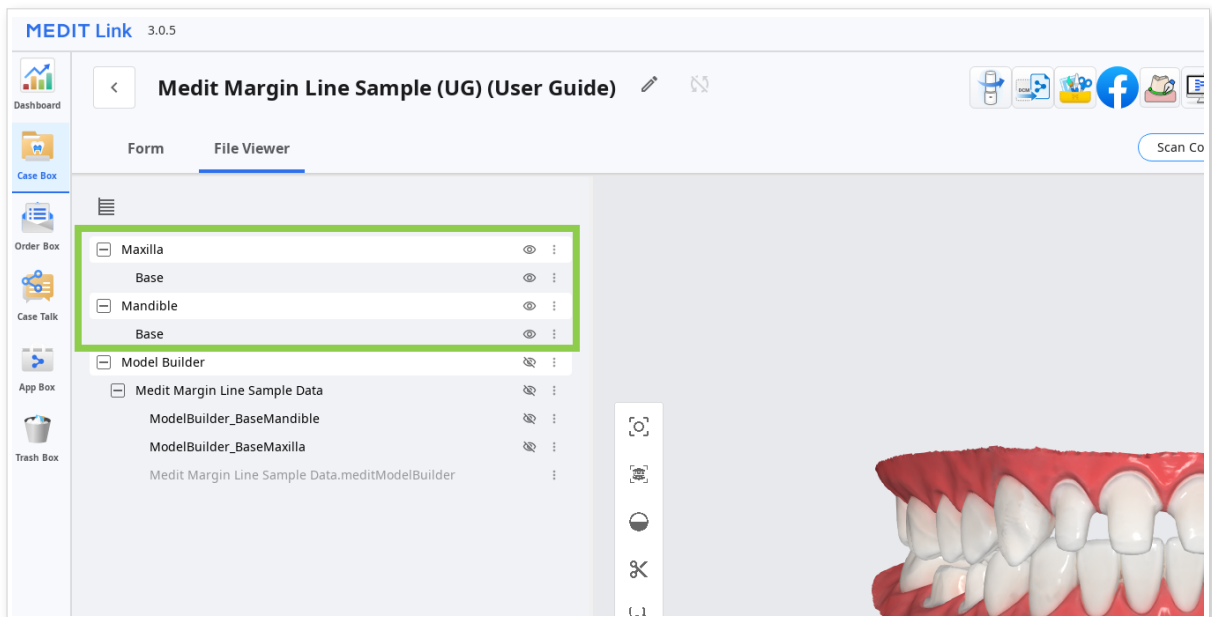


Data Management

Acquiring 3D Data

Medit Margin Lines only supports data processed in Medit Scan for Clinics.

Before running the app, make sure your scan data was acquired in the Maxilla or Mandible scan stages. Data from these stages will be titled “Base” in the File Viewer.







Data from the Pre-Op for Maxilla or Pre-Op for Mandible stages cannot be used in this app.






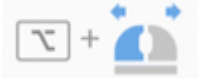

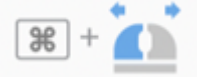
Attached data cannot be used in this app.

3D Data Control

3D data control using mouse:

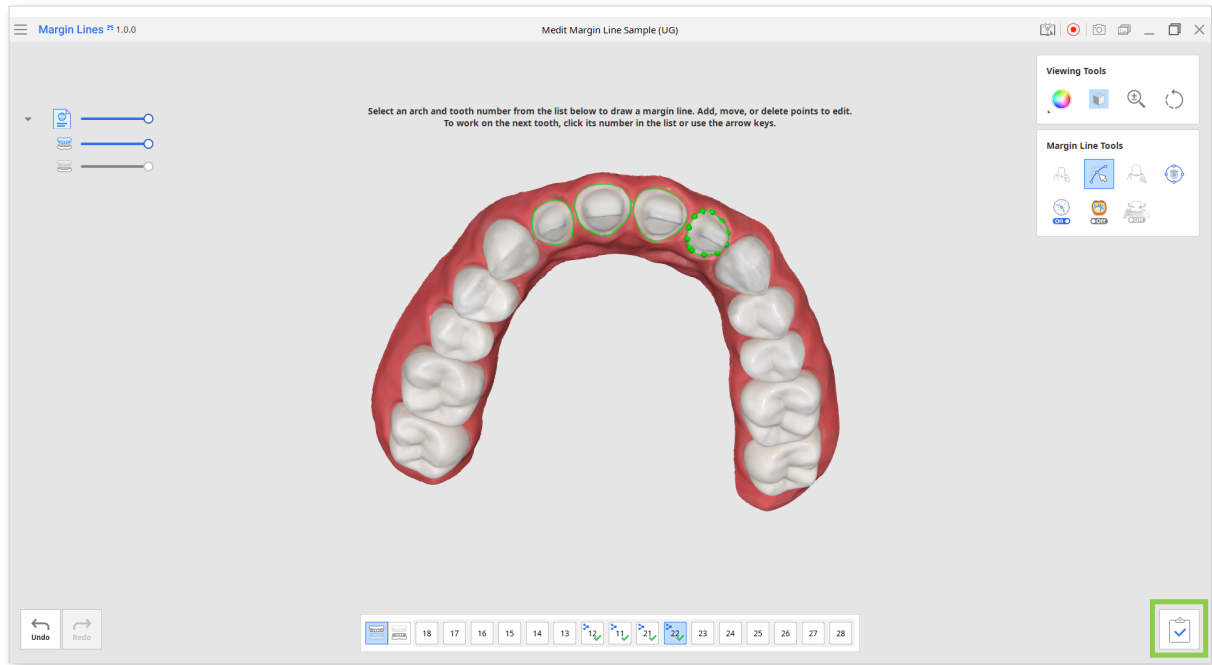
Button	Action	Use	Image
Left	Double Click	Zoom in on existing margins. Zoom out and place data in the center when drawing margin lines.	
Wheel	Drag	Move data around in the view screen.	
Wheel	Scroll	Zoom in and out.	
Right	Drag	Rotate data in the view screen.	

3D data control using mouse and keyboard:

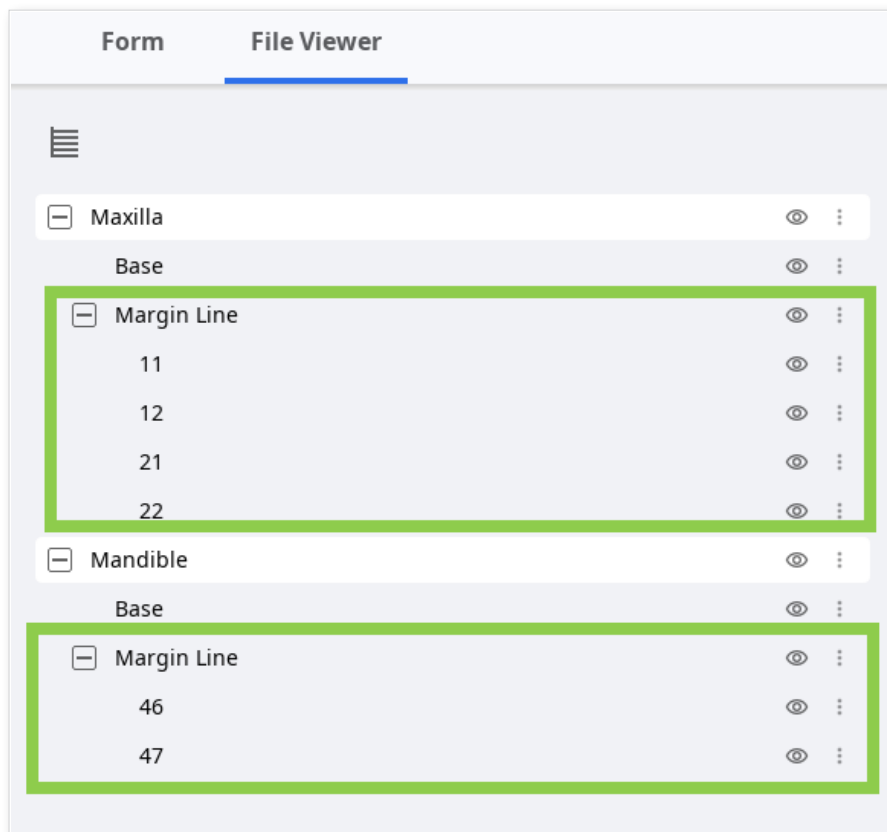
Action	Use	Windows	macOS
Left-click and drag	Zoom in and out		
Left-click and drag	Rotate		
Left-click and drag	Move		

Saving Margin Lines

When you finished drawing or editing margin lines, save them to the Medit Link case by clicking “Complete.”



Margin lines for each jaw will be added to the data list in the File Viewer tab.





You can choose whether to save margins or not when exiting the program.

Exit Options

Exit Program After Saving

Save all current progress and terminate the program.

Exit Program Without Saving

Terminate the program without saving any of the current progress.

Cancel

User Interface



- A. Title Bar
- B. Data Tree
- C. Undo/Redo

- D. Guide Message
- E. 3D Data
- F. Teeth List

- G. Viewing Tools
- H. Margin Line Tools
- I. Complete

Title Bar

The Title Bar includes the following options:

Menu	The menu includes tools to manage project options and shows the details of the application.
Help Center	Go to the Medit Help Center page.
Start Video Recording	Start the video capture.
Screenshot	Capture the screen. You can select the area automatically or manually. With the automatic selection, you can capture the app with or without the title bar.
Screenshot Manager	Manage screen capture images.
Minimize	Minimize the application.
Maximize or Restore	Maximize or restore the application window.
Exit	Close the application.

Data Tree

The Data Tree is located on the left side of the screen and displays the list of data you are using in groups.

You can easily show/hide data and change the transparency for each data or data group.






Scan Data Group

- Maxilla
- Mandible

Action Control

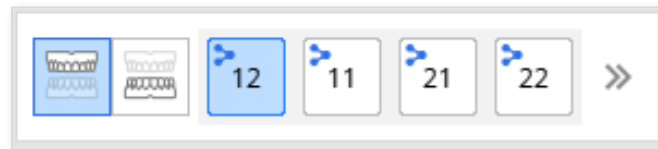
There are three buttons that provide action control. They can be found in the bottom corners.

Icon	Tool	Description
 Undo	Undo	Undo the previous action.
 Redo	Redo	Redo the previous action.
	Complete	Finish working on margins and save results to Medit Link.

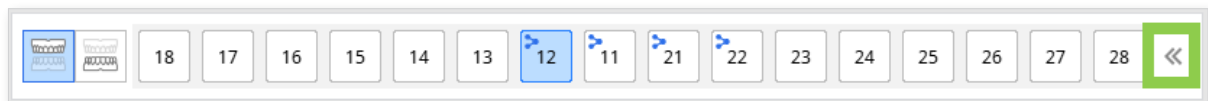
Teeth List

The teeth list at the bottom of the view screen represents the form information.

Click on the maxilla or mandible icons to view the corresponding teeth list and work on margins for those teeth. The Medit Link logo means that the tooth was registered in the case form. You can select a tooth number from the list by clicking it or using the left and right arrow keys.





Use Expand/Collapse icon to see the full list with teeth not registered in the form.





Viewing Tools

Viewing Tools contains useful tools for displaying, viewing, and working with the data.

Data Display









	Change Data Display Mode	Change the data display mode. (Textured/Textured with Edges/Monochrome/Monochrome with Edges)
	Grid Settings (mm)	Show or hide the grid. (Overlay on/off) Click multiple times to control overlay options.

Touch Screen/Mouse Options

	Zoom	Left-click and drag to zoom.
	Rotate	Left-click and drag to rotate.

Margin Line Tools

Margin Line Tools contain useful instruments for margin line automatic and manual creation, editing and management of the margin lines.

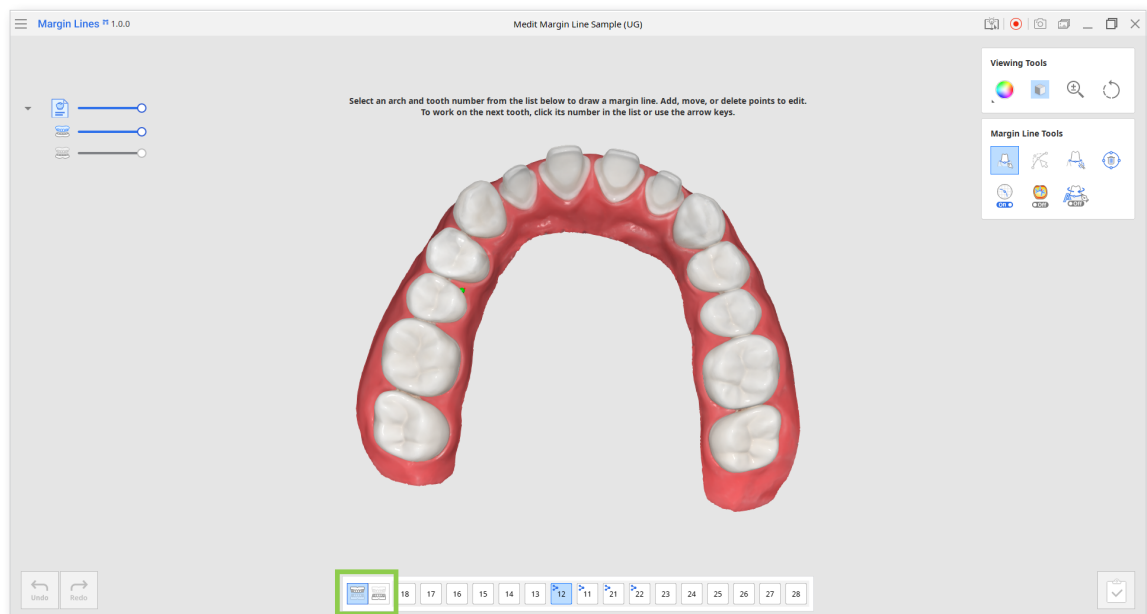
Icon	Tool	Description
	Manual Creation	Manually create a margin line based on the selected points.
	Edit	Edit the margin line. Add, move and delete the control points.
	Auto Creation	Automatically create a closed margin line based on the selected point.
	Delete	Delete the margin line.
	Section View	Displays the section of the area where the mouse is located.
	Curvature Display Mode	See the curvature of the data through Color Map.
	Dynamic View Change	Turn on Dynamic View Change to automatically rotate data according to the view direction.  Available only when using Manual Creation.

How to Draw Margin Lines

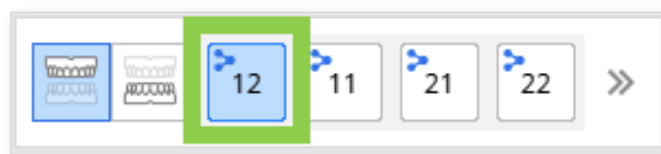
You can use Medit Margin Lines to create new margin lines automatically or manually, as well as to edit the existing ones.

Auto Creation

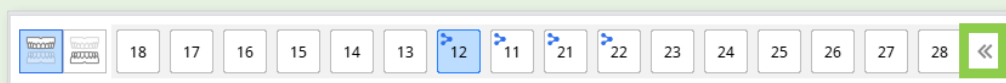
- ① After opening the app, select your target arch in the Teeth List below the data.



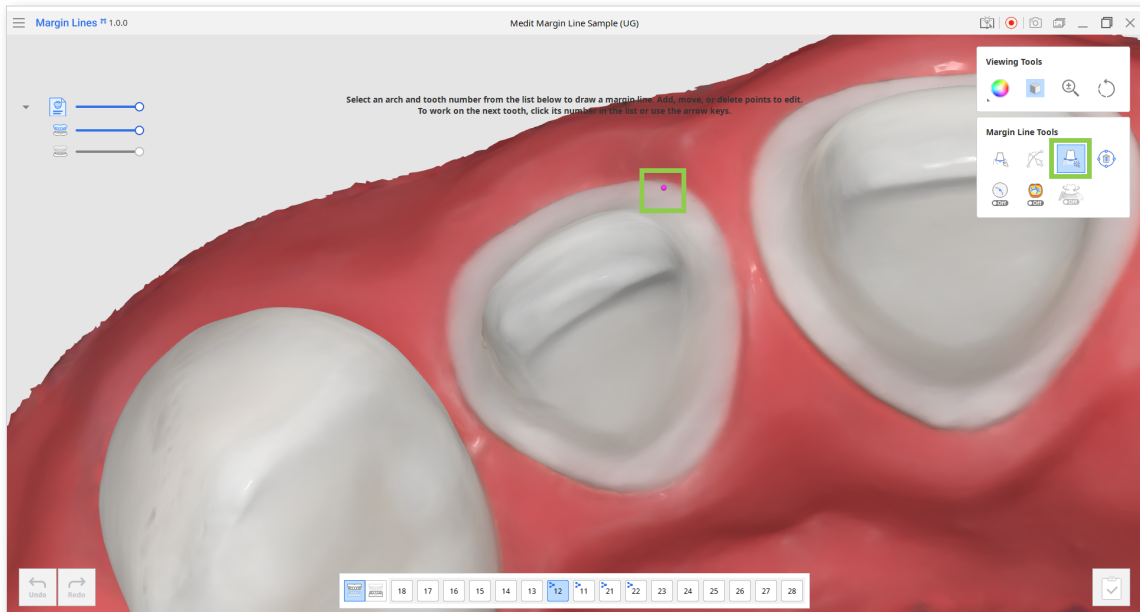
- ② Choose a tooth number for which you want to draw the margin. The selected number will be displayed in blue.



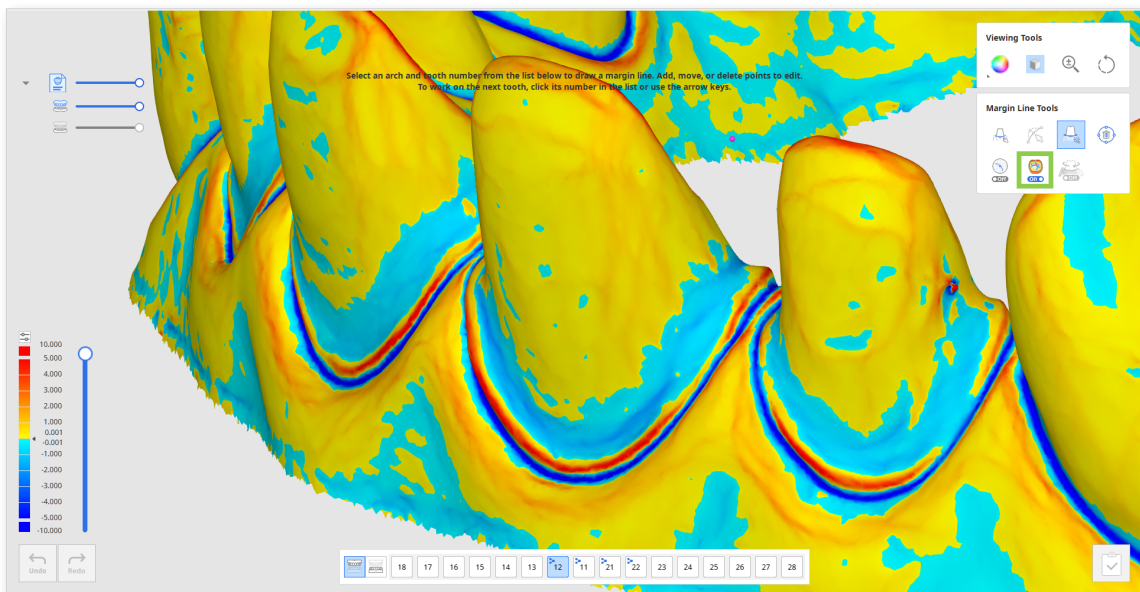
Teeth that are registered in the form will have the Medit Link logo. If you want to draw margins for teeth not registered in the form, expand the teeth list. All created margins will be saved to the case after clicking "Complete."



- ③ Select the Auto Creation tool from the toolkit on the right, zoom in on the target tooth, and create a complete margin line with one click.



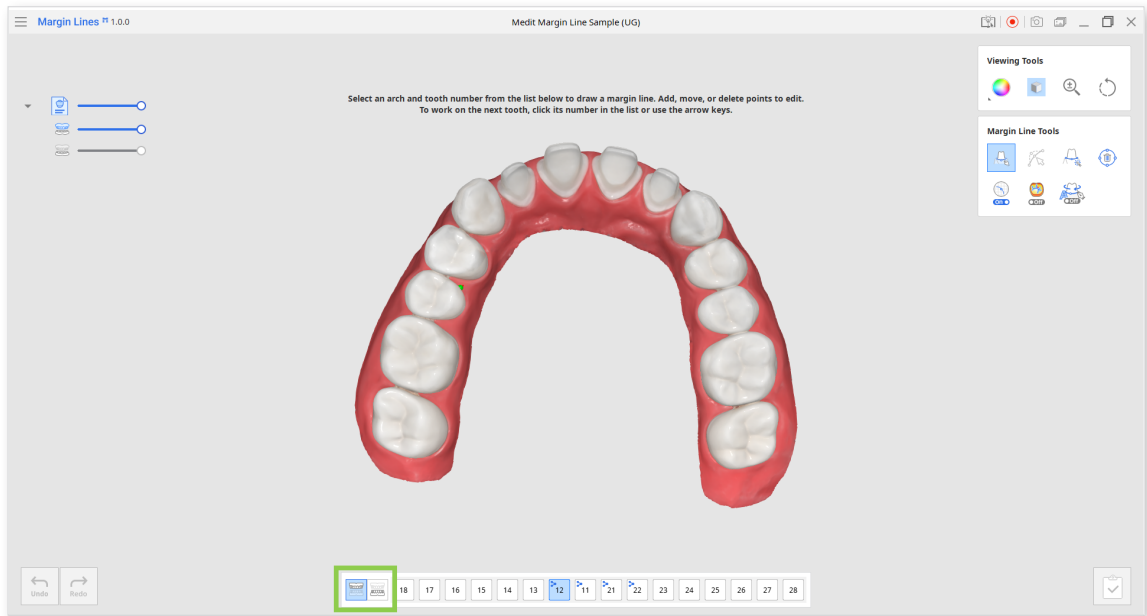
- ④ You can also turn on Curvature Display Mode to help you analyze the prepared data and draw a more precise margin line.



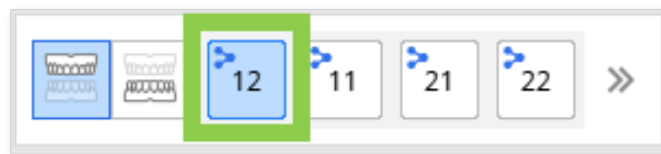
- ⑤ If you want to work on the other tooth, select it in the list or use the arrow keys.
- ⑥ If you want to save created margins, click “Complete.”

Manual Creation

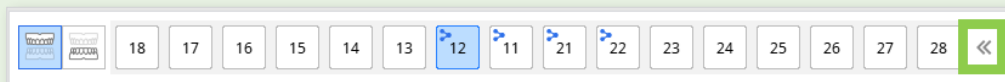
- ① After opening the app, select your target arch in the Teeth List below the data.



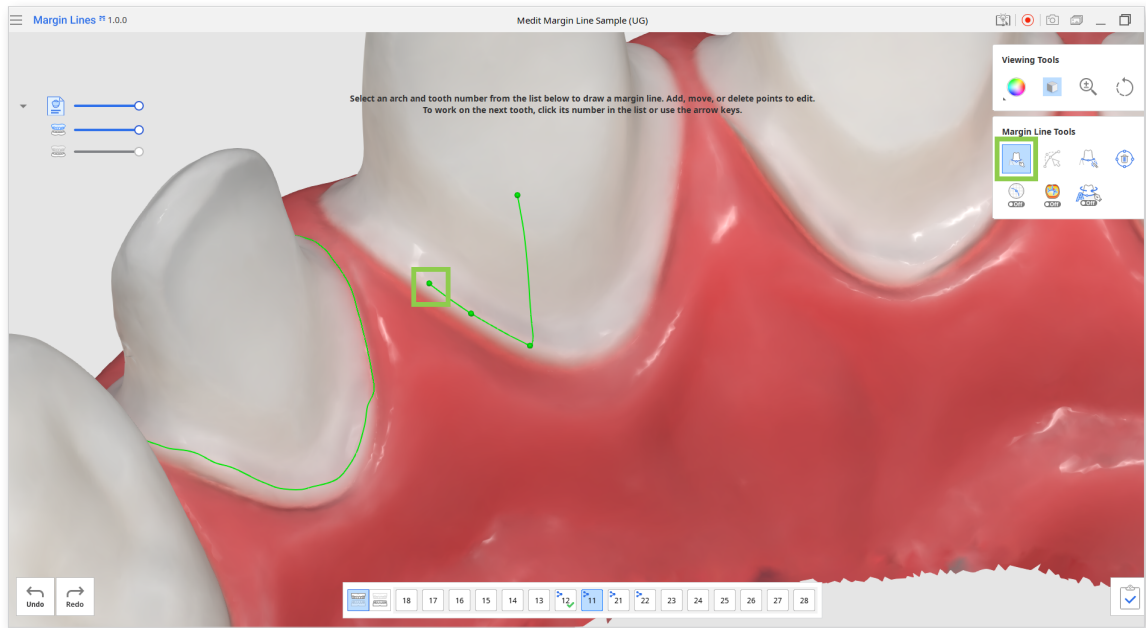
- ② Choose a tooth number for which you want to draw the margin. The selected number will be displayed in blue.



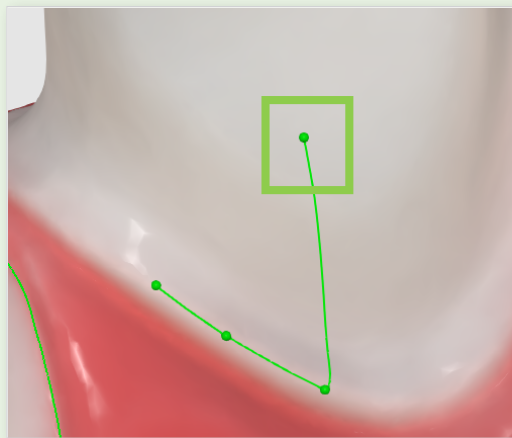
Teeth that are registered in the form will have the Medit Link logo. If you want to draw margins for teeth not registered in the form, expand the teeth list. All created margins will be saved to the case after clicking "Complete."



- ③ Select the Manual Creation tool from the toolkit on the right, zoom in on the target tooth, and start drawing the margin by adding control points.

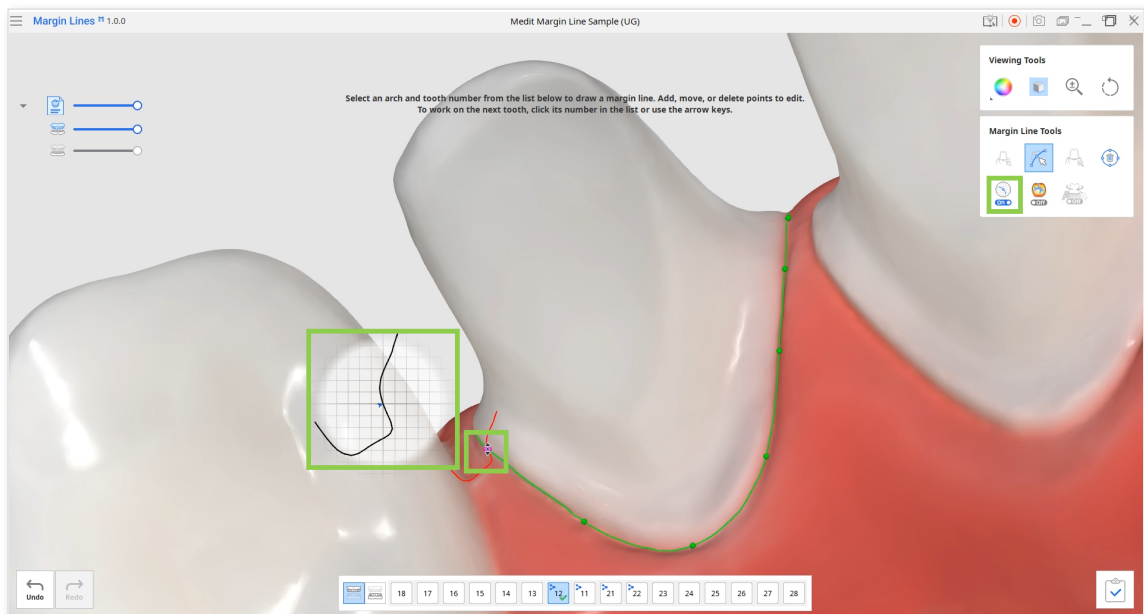


💡 If you accidentally add a control point in the wrong place, use Ctrl+Z/ Cmd+Z to delete the last added control point.

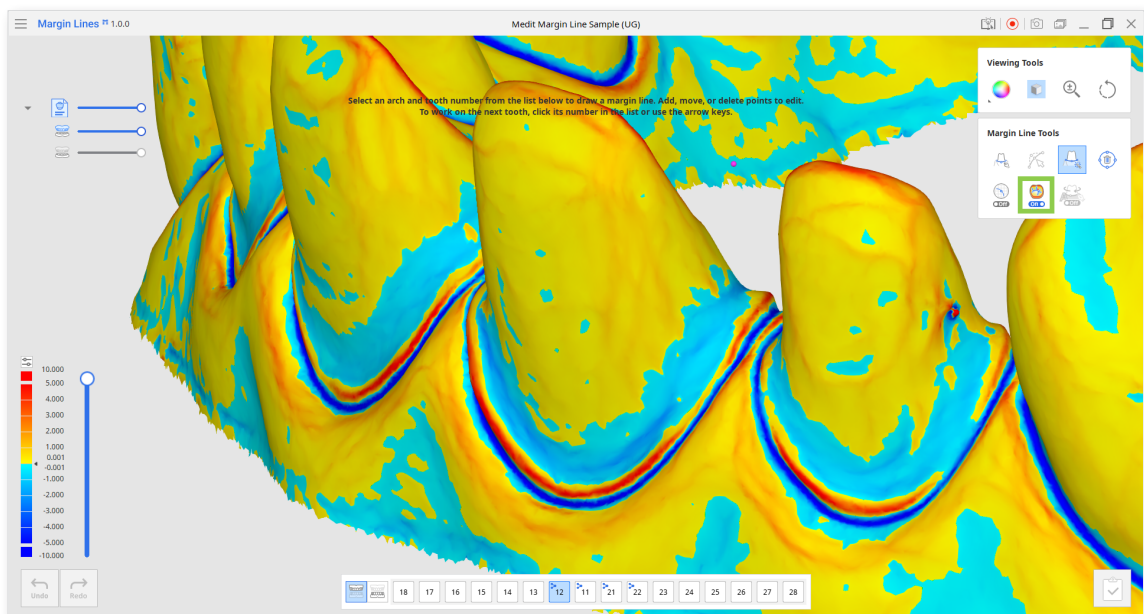


💡 Turn on Dynamic View Change, and the data will automatically rotate to your view while adding control points.

- ④ When Section View is on, you can adjust the control point along the section line by long-click and dragging it.



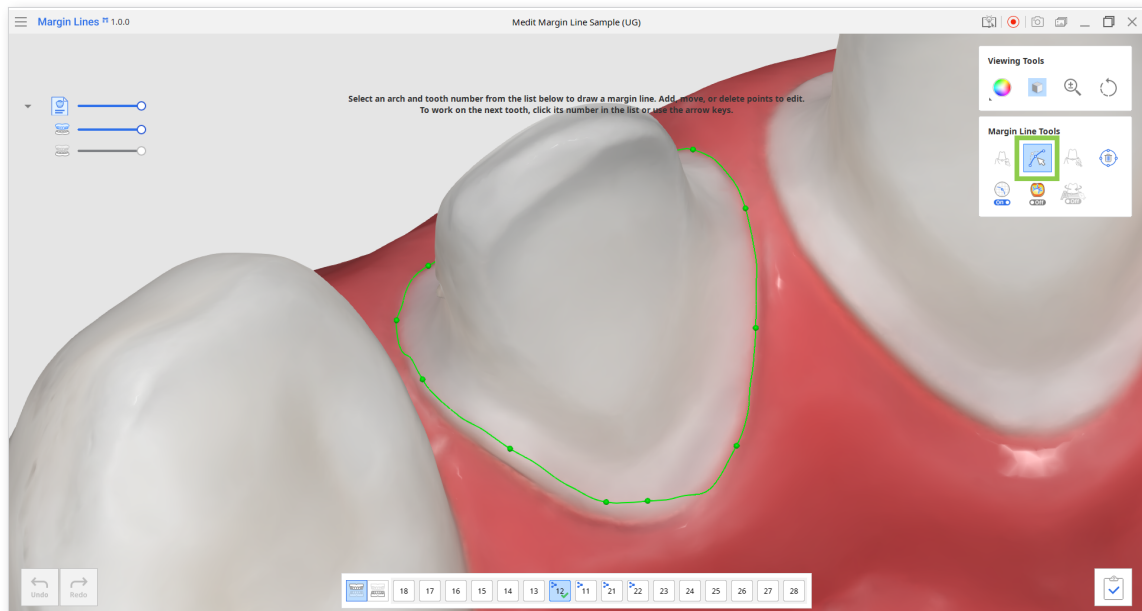
- ⑤ You can also turn on Curvature Display Mode to help you analyze the prepared data and create a more precise margin line.



- ⑥ If you want to work on the other tooth, select it in the list or use the arrow keys.
- ⑦ If you want to save created margins, click “Complete.”

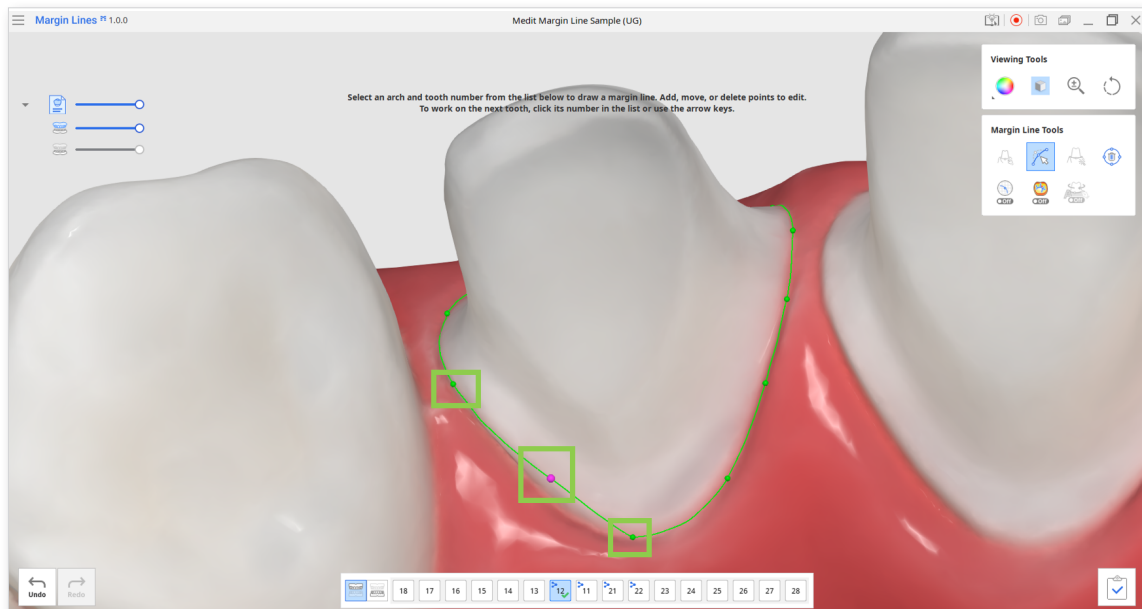
Editing

- ① When you open the app from a case with margin lines or click a tooth number that has it, the Edit tool is automatically activated.



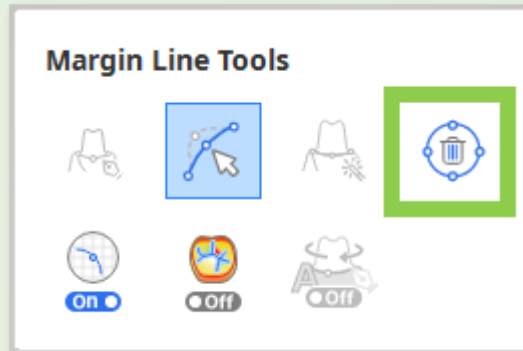
- ② Use the control points on the line to edit it.

Click to add a new point, click and drag to move the point, and right-click to delete the point.

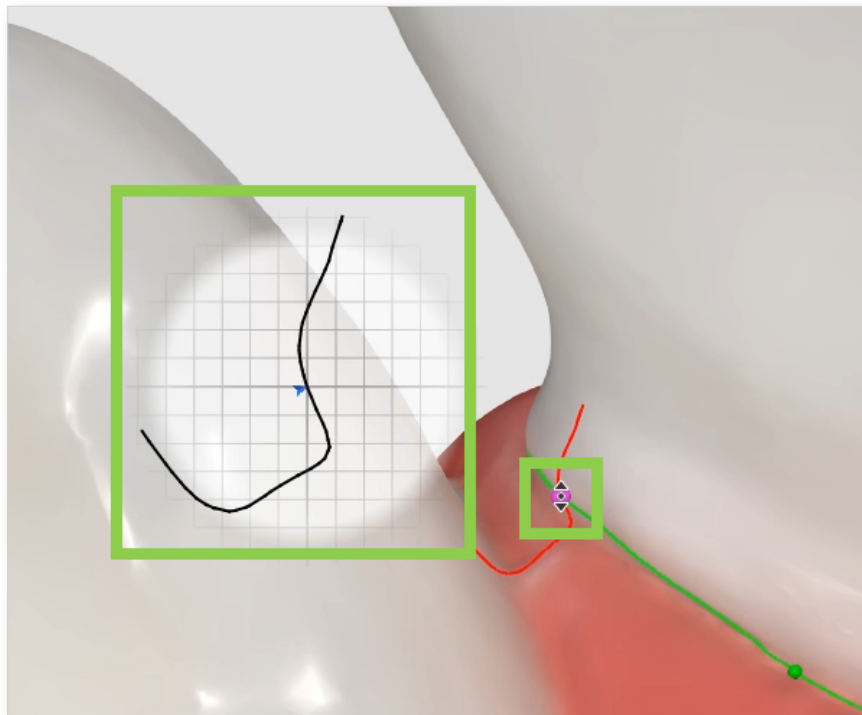




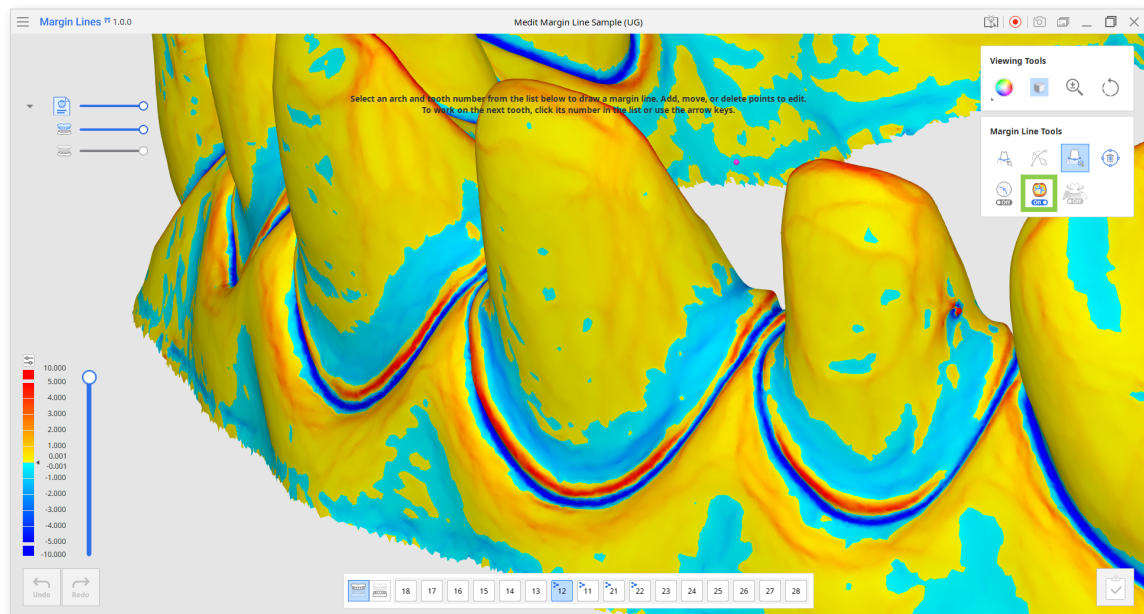
To delete the existing margin entirely and start all over, click “Delete.”



- ③ When the Section View tool is active, you can adjust the control point along the section line by long-clicking and dragging it.



- ④ You can also turn on Curvature Display Mode to help you analyze data and create a more precise margin line.



- ⑤ If you want to work on the other tooth, select it in the list or use the arrow keys.
- ⑥ If you want to save edited margins, click "Complete," and margins in the case will be overwritten.