3Shape Unite 24.1/DGSHAPE CAM for DWX-43W 2025 V25.1.0

3Shape CAM Produce Quick Guide

Workflow for DWX-43W Users

3shape

DGSHAPE
A Roland DG Group Company

Rev02 July 15,2025

Workflow Overview

This solution enables seamless integration from design to milling by connecting TORIOS, 3Shape CAD software, CIM system CAM software, and DGSHAPE DWX-43W.

1.Software Preparation(Set by the dealer)

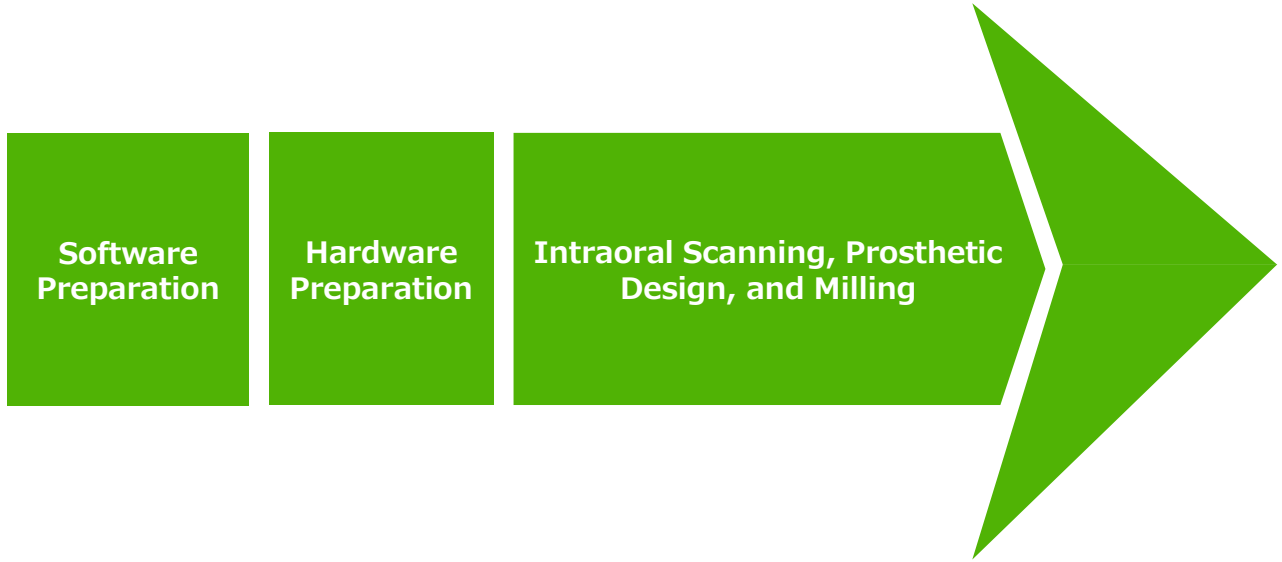
Install and configure the necessary software for this workflow.

2.Hardware Preparation

Prepare and connect the required devices to your PC.

3.Intraoral Scanning, Prosthetic Design, and Milling

Scan the patient’s oral cavity, design the prosthetic, and mill it using the DWX-43W.



Usage Conditions

【Requirements】 In order to use this integration, the following requirements must be fulfilled.

Q 1 ：Is VPanel for DWX installed?

No → Install VPanel for DWX.

Yes ↓

Q 2 ：Is 3Shape Unite V1.8.10.1 or later installed?

No → Update/install 3shape Unite V1.8.10.1 or later by referring to the next page.

Yes ↓

Q3 : Is DGSHAPE CAM V25.1.0 or later installed?

No → Update/install DGSHAPE CAM V25.1.0 or later.

Yes ↓

✓ **Usage requirements are met. Please follow the next pages to continue the setup.**

Software Setup

*For installation settings, please contact the dealer.

3Shape Unite

- Update from older versions of 3Shape Dental Desktop.

  Note: 3Shape CAM Produce for DWX-43W is supported starting from Unite version 1.8.10.1.

  However, we recommend updating to the latest version.

  How to Update 3Shape Unite

- Download and install from the 3Shape portal site.

  How to install 3Shape Unite

*Refer to the 3Shape Unite homepage for more details. (3Shape Unite - 3Shape)

Software Setup

*For installation settings, please contact the dealer.

DGSHAPE CAM for DWX-43W Setup

・Note: The DGSHAPE CAM for DWX-43W software used in this workflow is different from the standard DGSHAPE CAM for DWX-43W.

Please download the “3shape CAM Produce for DWX-43W Installer” from the DGSHAPE Portal Site, and contact your distributor for installation settings.

・Follow the installer instructions provided by your distributor or CIM system.。

Software Setup

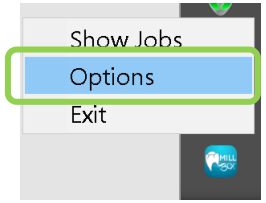
*For settings, please contact the dealer.

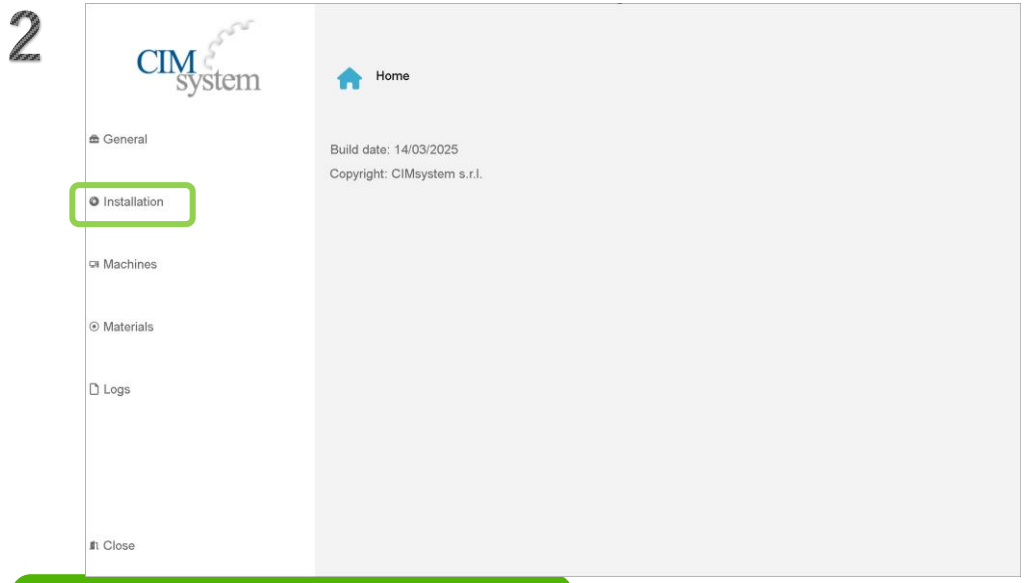
DGSHAPE CAM Product Integration

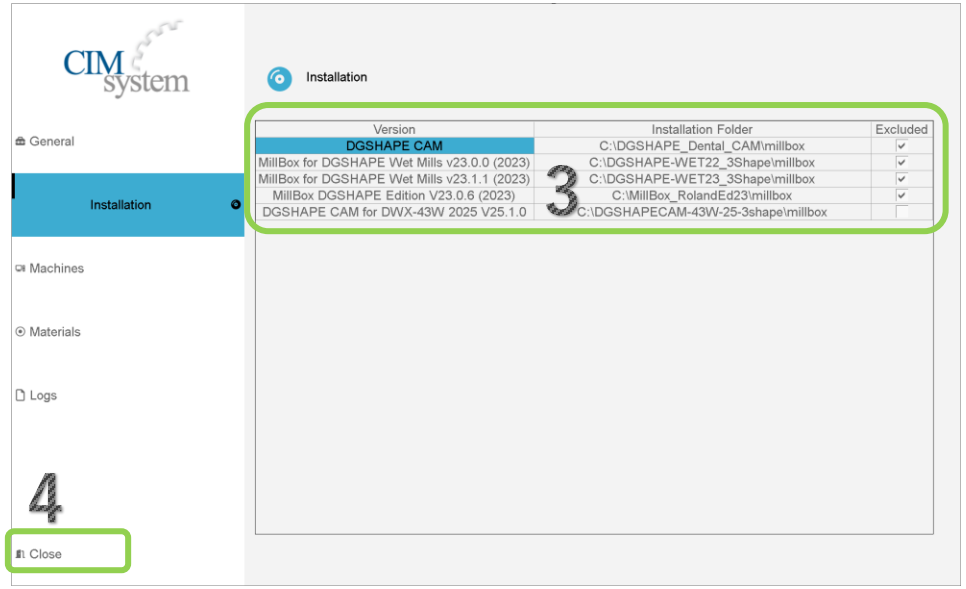
1. Access the status bar, right-click the MILL box icon, and select “Option.”
2. Click “Installation”.
3. Uncheck only the DGSHAPE CAM for 3Shape CAM Produce.

*The Installation Folder displayed as C: /DGSHAPE CAM for DWX-43W 2025 V25.1.0 is the DGSHAPE CAM for 3Shape CAM Produce.

4. Click “Close” .







Hardware Setup

*For settings, please contact the dealer.

Intraoral Scanner

- Connect the 3Shape scanner to your PC.
- Refer to the scanner’s manual for connection instructions.

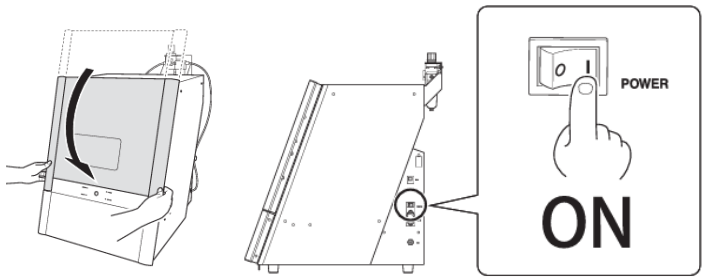
Hardware Setup *For settings, please contact the dealer.

DWX-43W Milling Machine

*Please also check the DWX-43W user manual.

1. Turn on the machine with the front cover closed.
2. Ensure air pressure is between 0.18–0.22 MPa.
3. Confirm that optional accessories (ZV-42W, AK-1) are not attached.
   (*1 Multi pin clamp (ZV-42W) , *2 AK-1 attachment)

1



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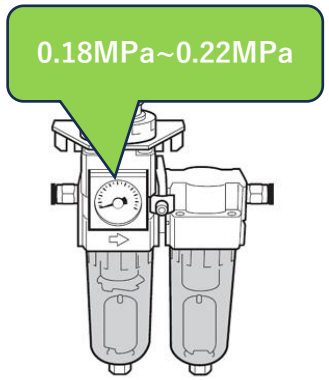

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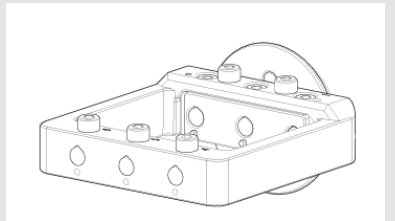
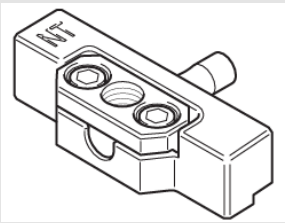


Multi pin clamp (ZV-42W)



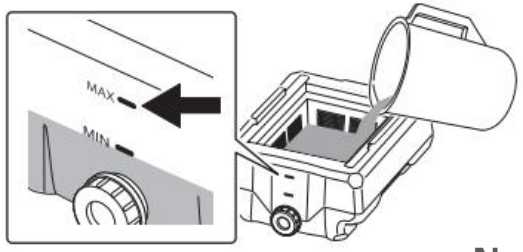
AK-1 attachment

*Not used this time

Hardware Setup *For settings, please contact the dealer.

4. Check coolant tank water level and refill if needed.
5. Install tools in the tool stocker:
   - No.1: ZGB2-125D
   - No.2: ZGB2-50D
   - No.3: ZGB2-25D
6. Mount the material (e.g., Suprinity) in Clamp Position No.1.
7. Connect the PC and milling machine via USB.

4



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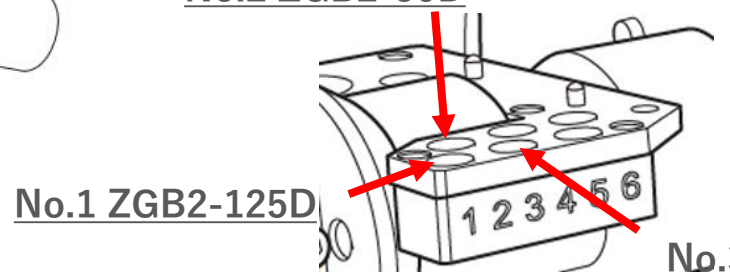

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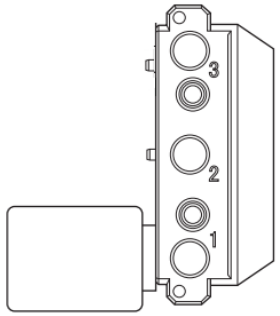

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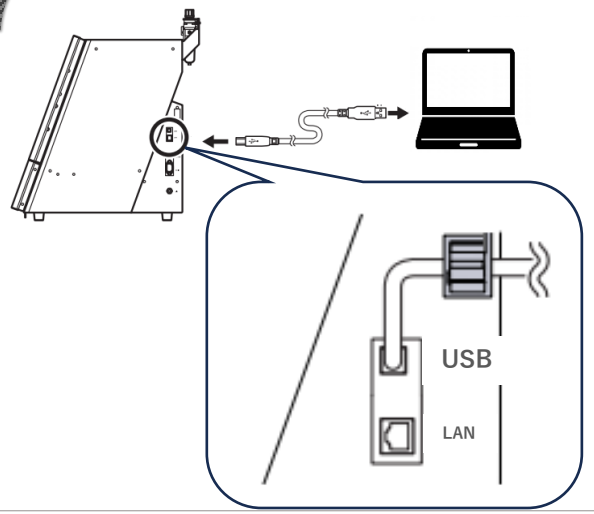
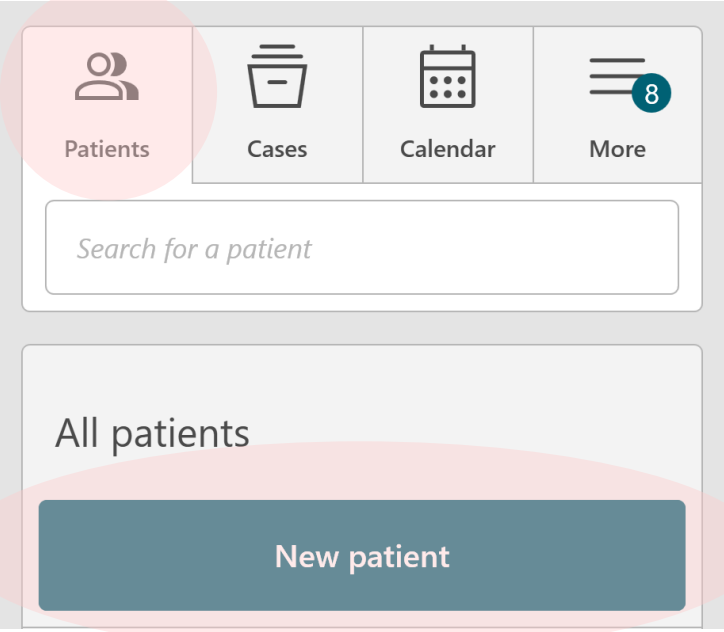
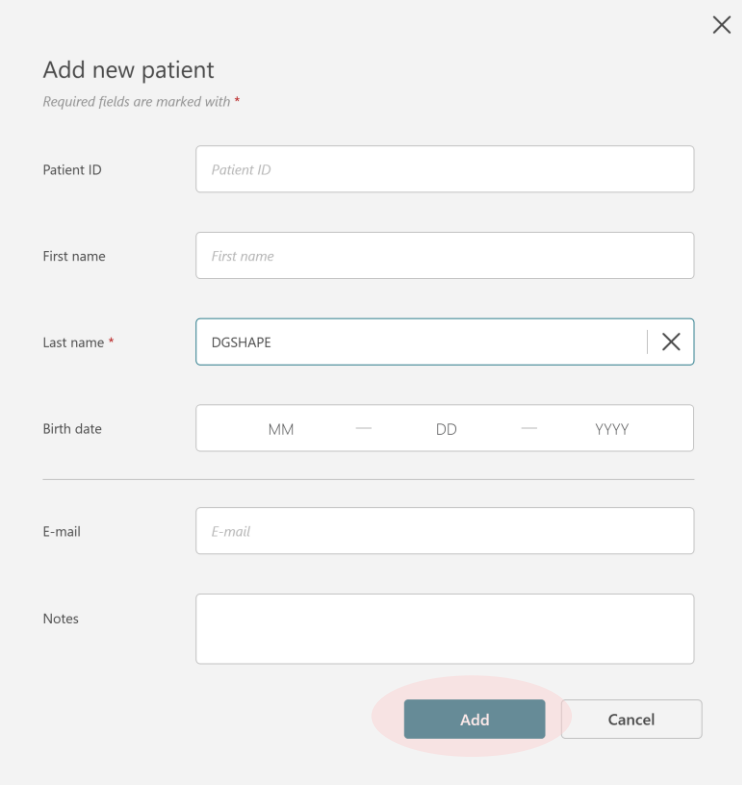


Intraoral Scanning

Add a new patient



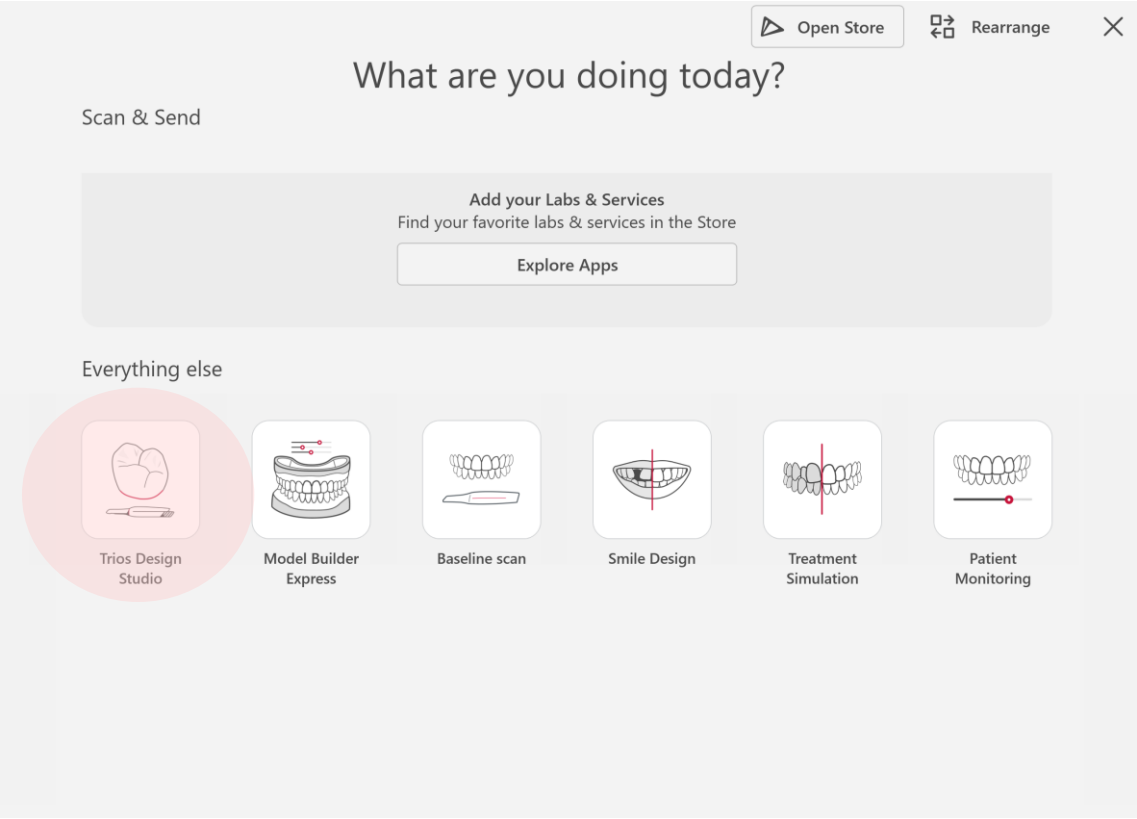
1. Click on the [Patients] tab .
Then, click the [New patient] button.



2. Input their information.
Then, Click the [Add] button.

Intraoral Scanning

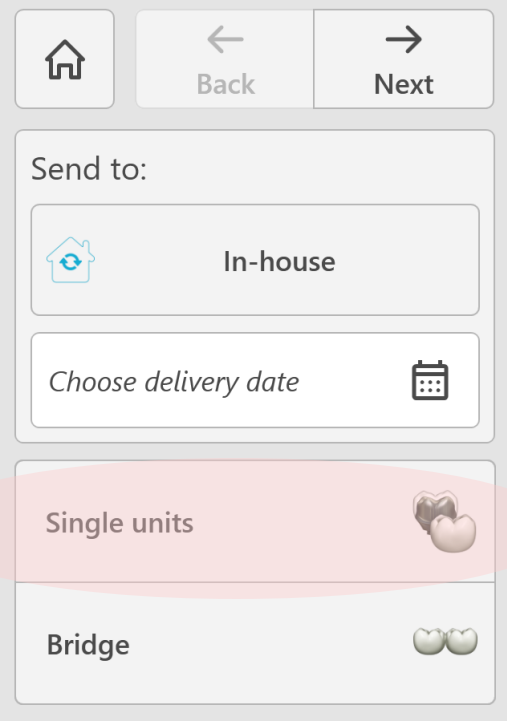
Add a new patient



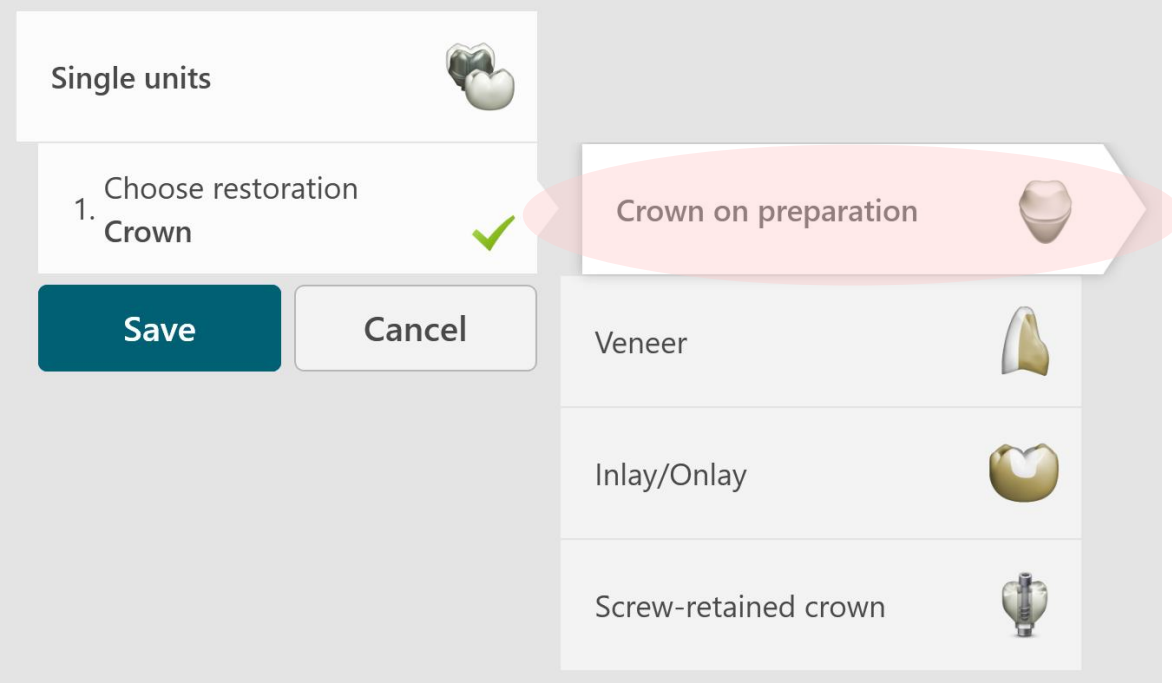
3. Select “Trios Design Studio.”

Intraoral Scanning

Case settings



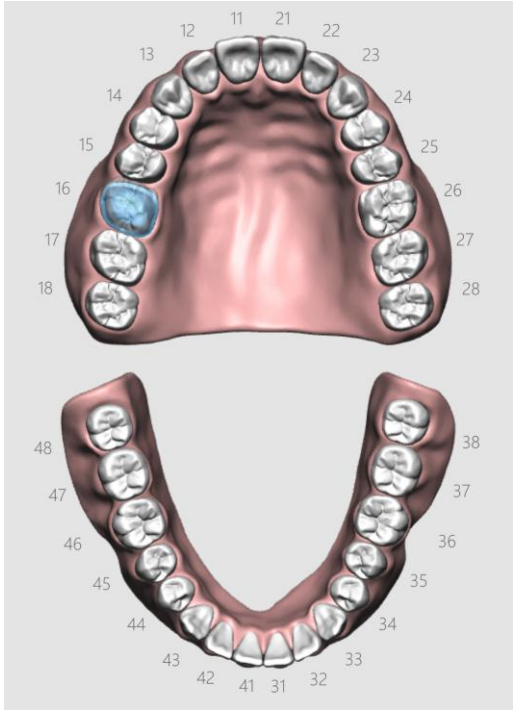
4. Choose case type (e.g., single unit).



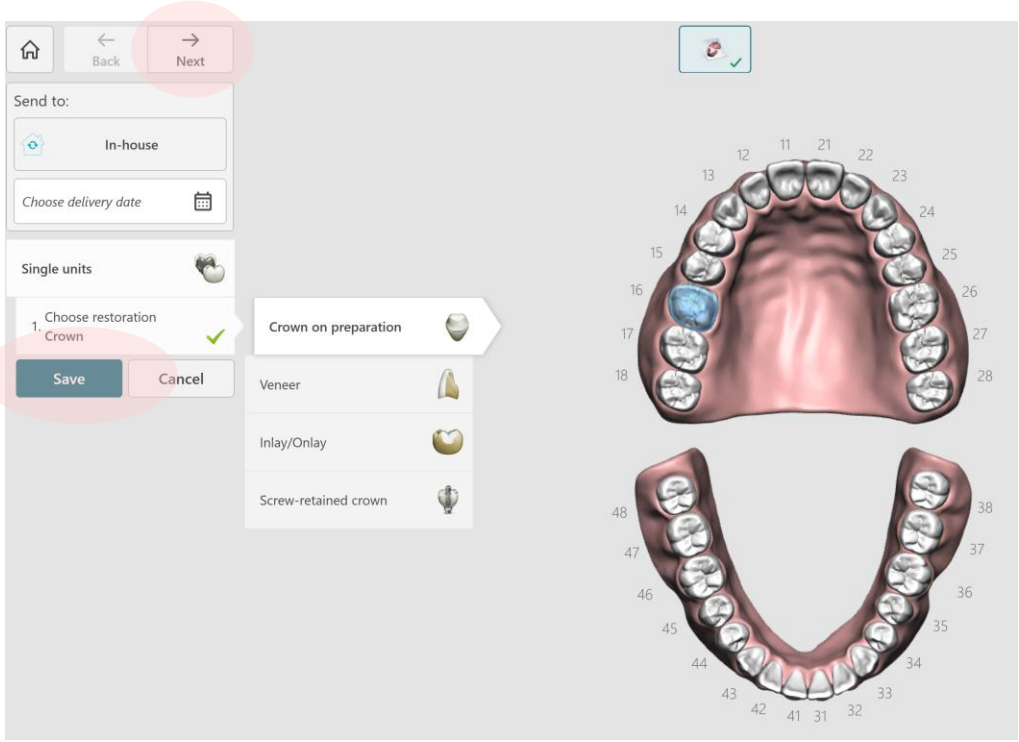
5. Select prosthetic type (e.g., crown on prepared model).

Intraoral Scanning

Case settings



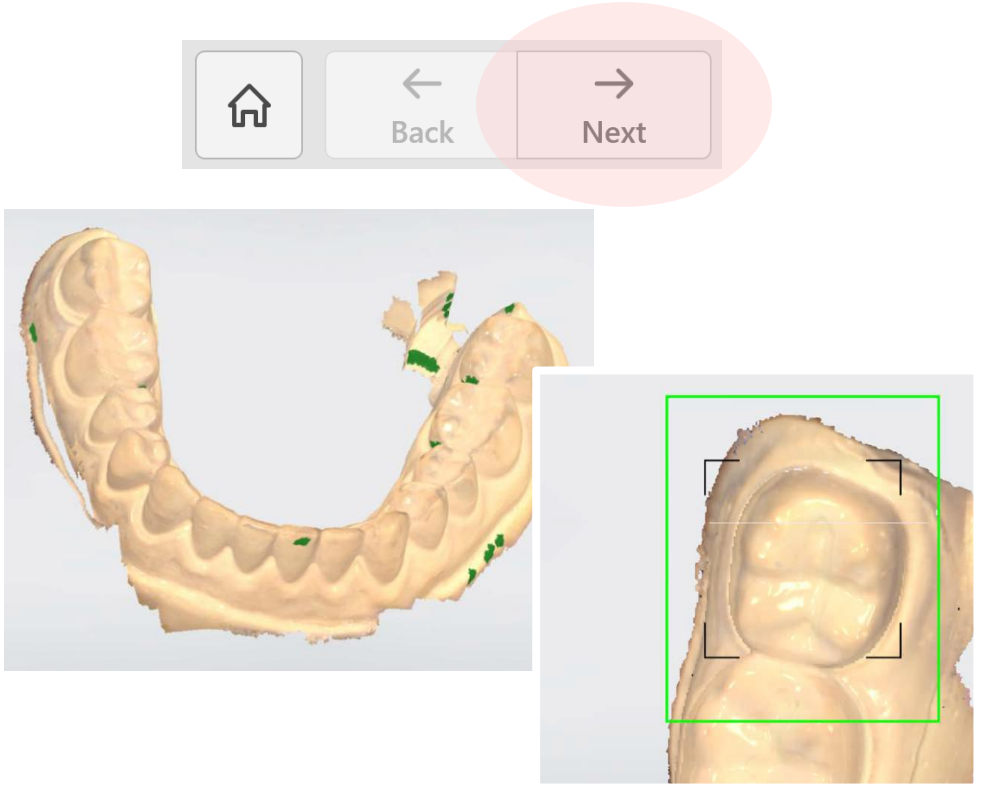
6. Select the tooth number (e.g., #16).



7. Click the [Save] button.
Then, click the [Next] button to proceed.

Intraoral Scanning

Scan lower jaw



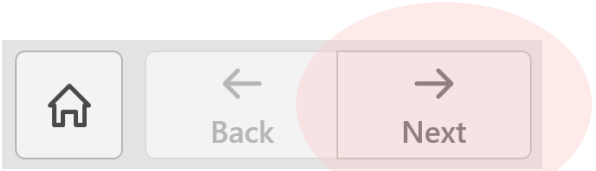
8. Scan the lower jaw.
   Press the button on the TRIOS3 to start scanning.

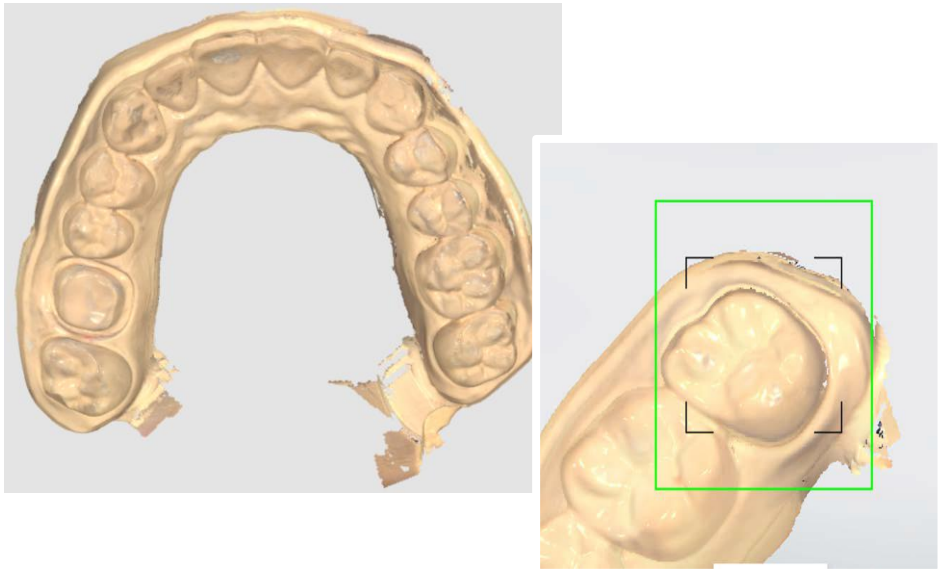
9. Scan the entire lower jaw.
   Once the scan is complete, press the TRIOS3 button again.
   Click the [Next] button to proceed to the next step.

*In this guide, a plaster model is scanned instead of an actual oral cavity.

Intraoral Scanning

Scan upper jaw





10. Scan the upper jaw.
    Press the button on the TRIOS3 to start scanning.

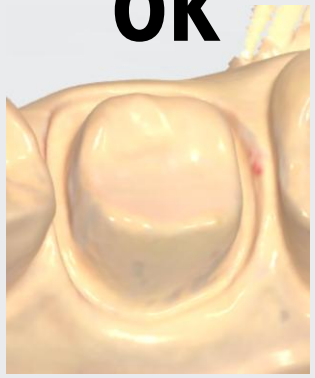
11. Scan the entire upper jaw.
    Once the scan is complete, press the TRIOS3 button again.
    Click the [Next] button to proceed to the next step.

Intraoral Scanning

Scan upper jaw

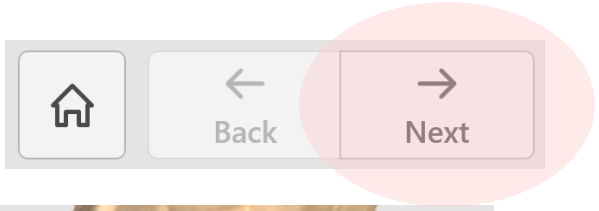
≪Note≫

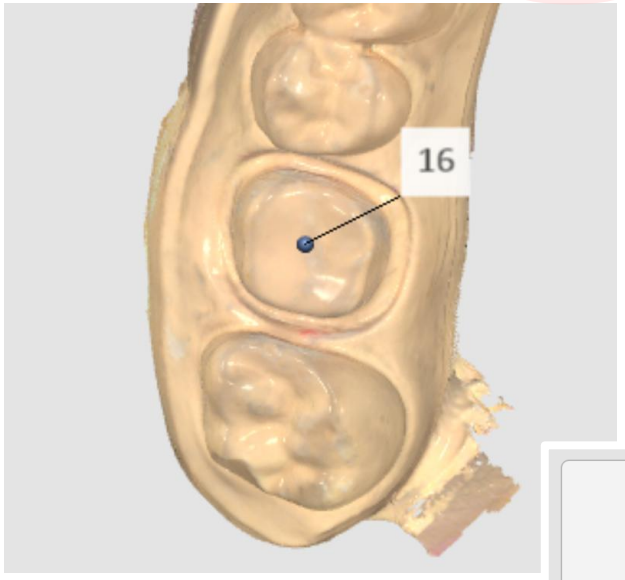
OK



Not OK

If the area around the abutment tooth appears green, press the TRIOS3 button again to rescan the area around the abutment.

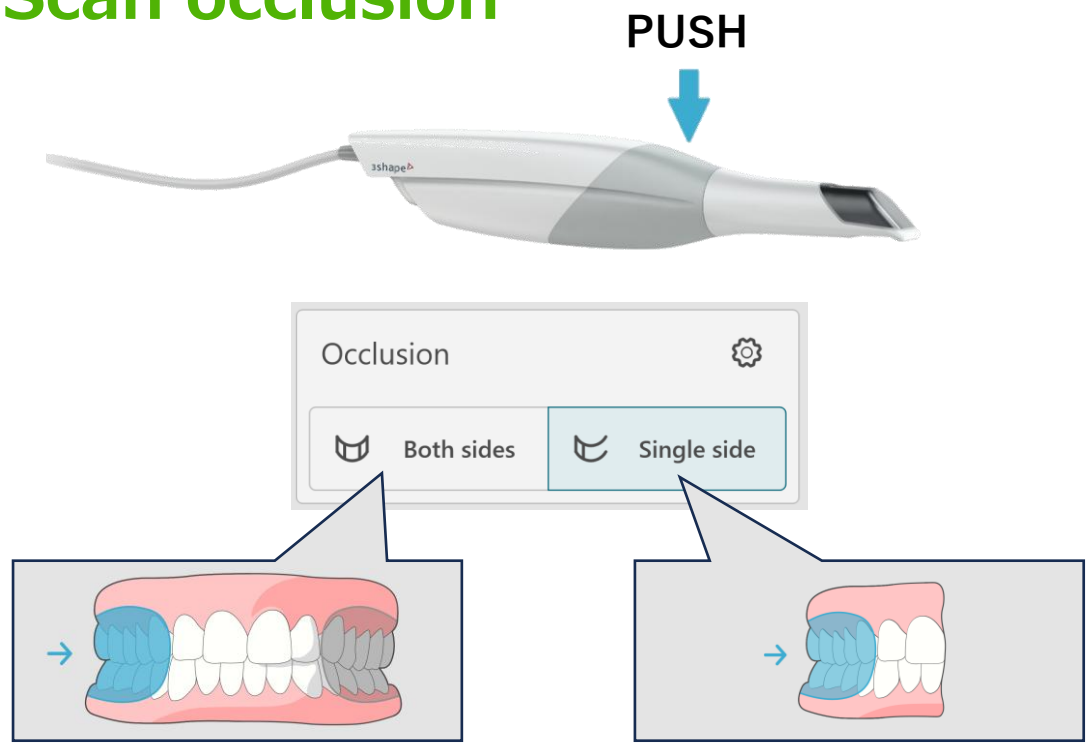




12. Click on the tooth to be treated in the scan data.
    Then, click the [Next] button to proceed.

Intraoral Scanning

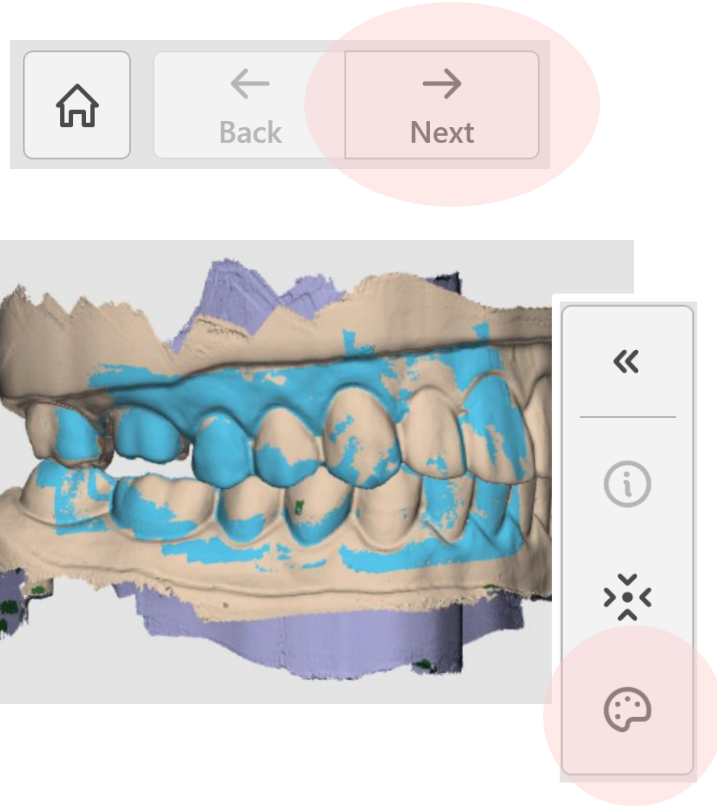
Scan occlusion



13. Scan the occlusion.

Choose whether to scan both sides or just one side.

Press the TRIOS3 button to start scanning.。

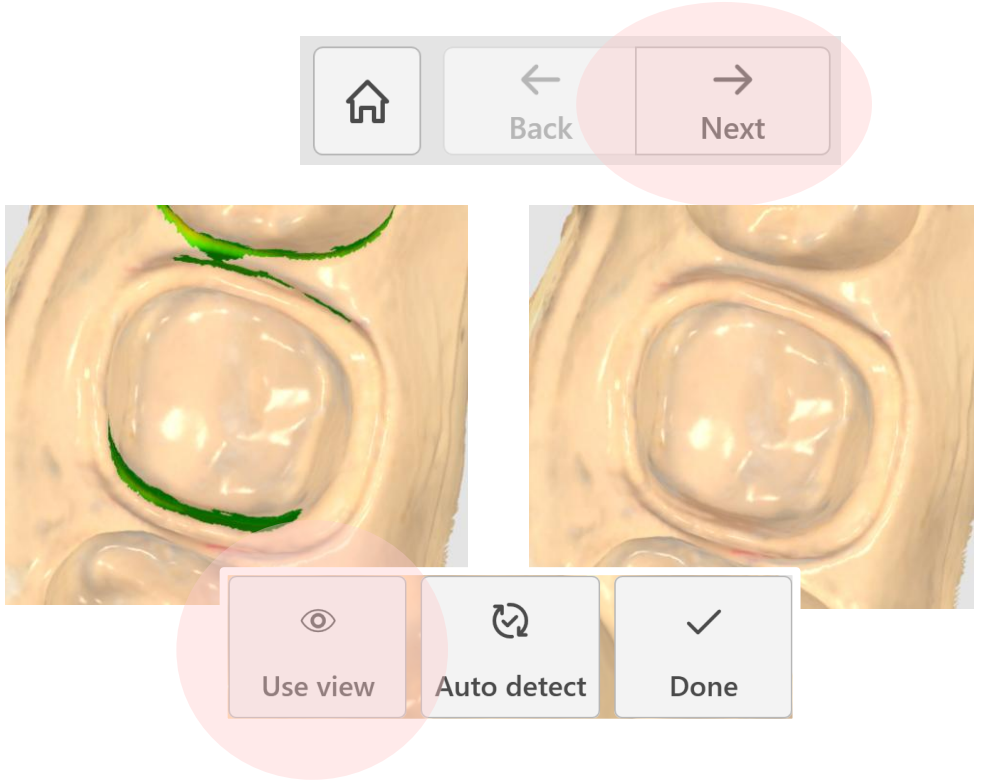


14.Turn off the icon to make the scan results easier to see. The occlusion scan data (light blue) will be automatically aligned with the upper and lower jaw scan data. Once the scan is complete, press the button on the TRIOS3 device. Click the [Next] button to proceed to the next step.

Intraoral Scanning

Scan occlusion

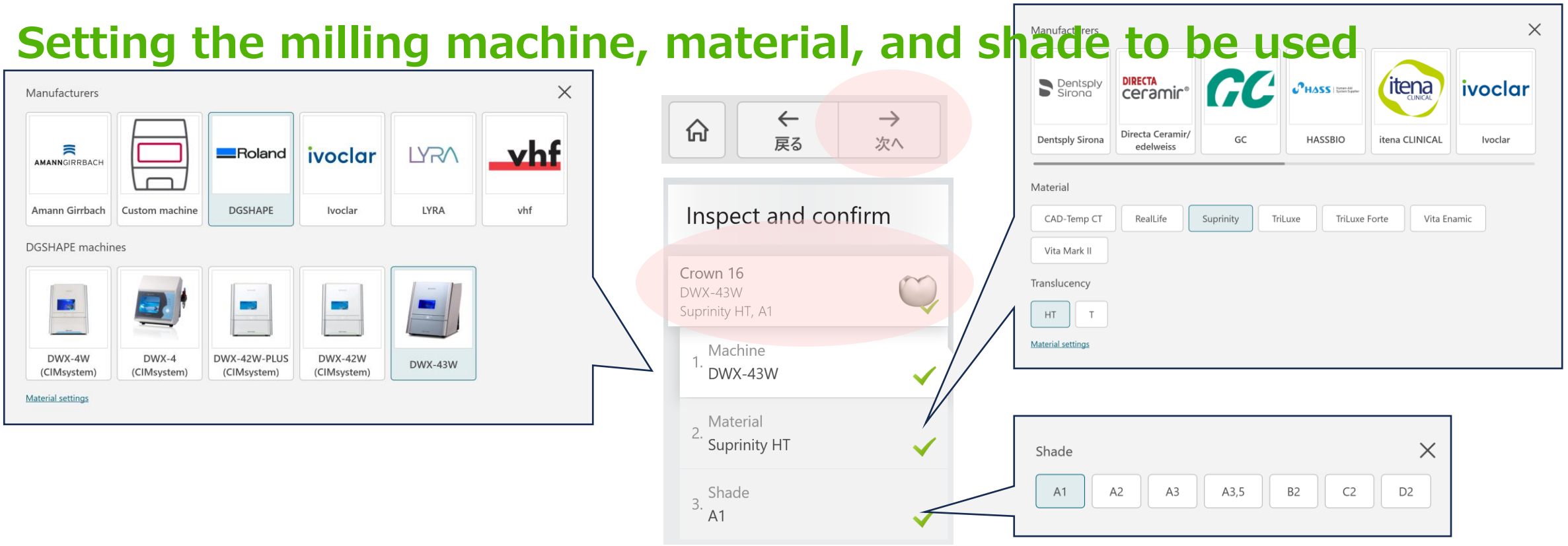
15. Check the insertion direction of the tooth to be treated.
    Click the [Direction] button.



16. Adjust the view to minimize undercuts, then click the [Use view] button.
    If everything looks good, click the [Next] button to proceed.

Prosthetic Design

Setting the milling machine, material, and shade to be used



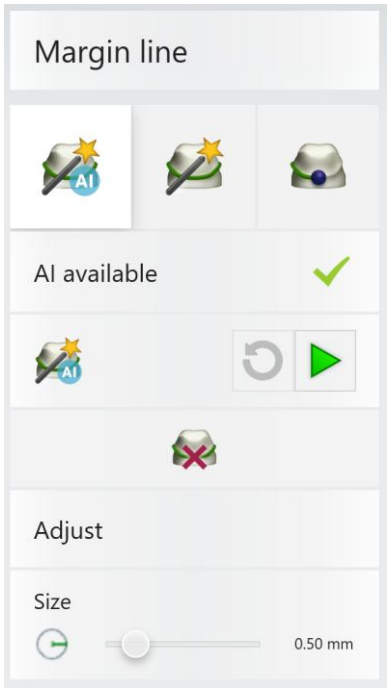
17. Click the tab that displays the prosthetic and tooth chart.
    A tab will appear where you can select the milling machine, material, and shade.
    Choose the appropriate options for each.

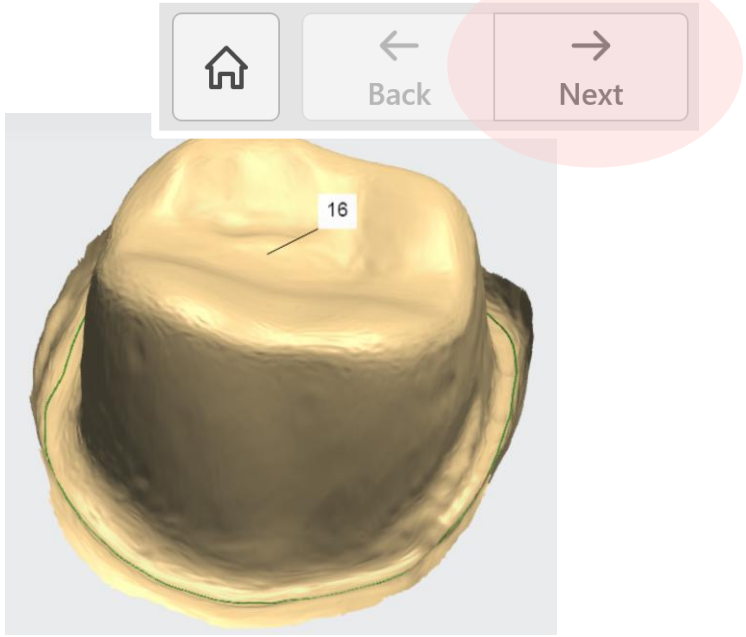
*In this example, DWX-43W, Suprinity HT, and A1 are selected.

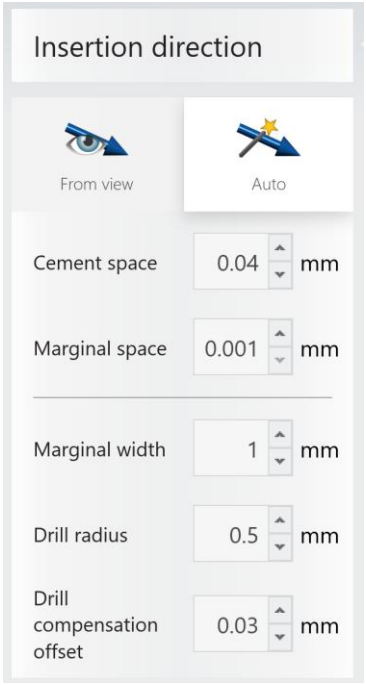
Click the [Next] button to proceed to the next step.

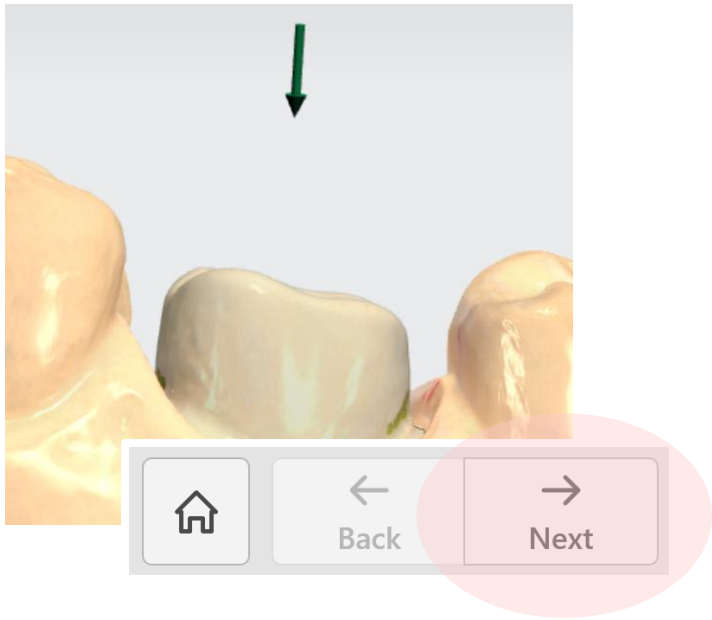
Prosthetic Design

Setting the margin line and prosthetic insertion direction









18. The “AI Design” function will generate the margin line.
    If you want to adjust the margin line, click near the margin line or drag it to modify.
    Click the [Next] button to proceed to the next step.

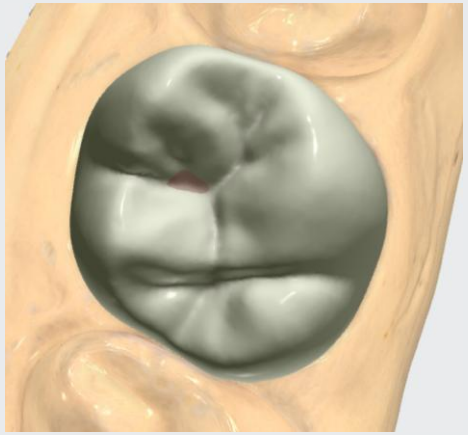
19. Check the green arrow indicating the insertion direction of the prosthetic.
    If everything looks correct, click the [Next] button to proceed.

Prosthetic Design

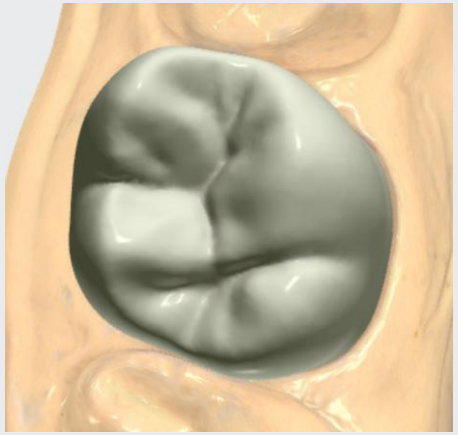
<Note> About the Prosthetic Design

There are several methods for designing prosthetics.

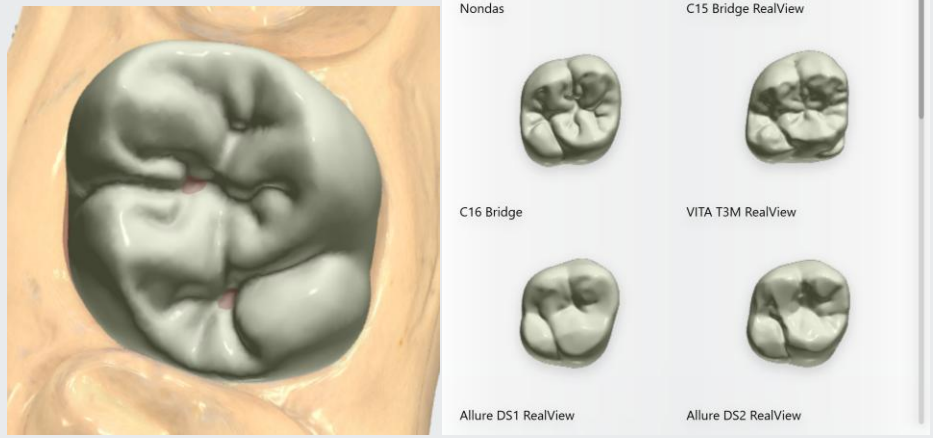
- AI Design
- Copy
- Smile Library



AI Design



Copy



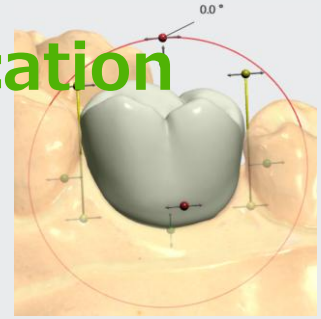
Smile Library

Prosthetic Design

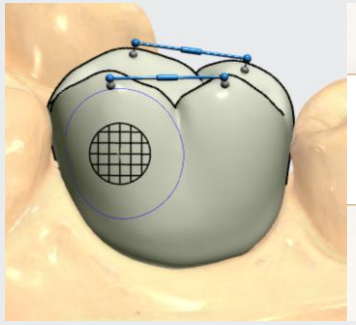
<Note> About the Prosthetic Modification

There are several methods available for editing the design.

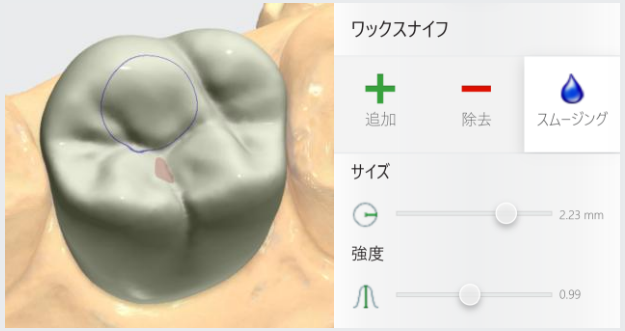
- **Transform**： Resize or rotate the object
- **Morph**：Shape the surface
- **Wax knife**：Modify the surface (add, subtract, smooth)
- **Contacts**：Trim contact areas on adjacent and occlusal surfaces
- **Automatic tools**：Use available auto-design tools



Transform



Morph



Wax knife

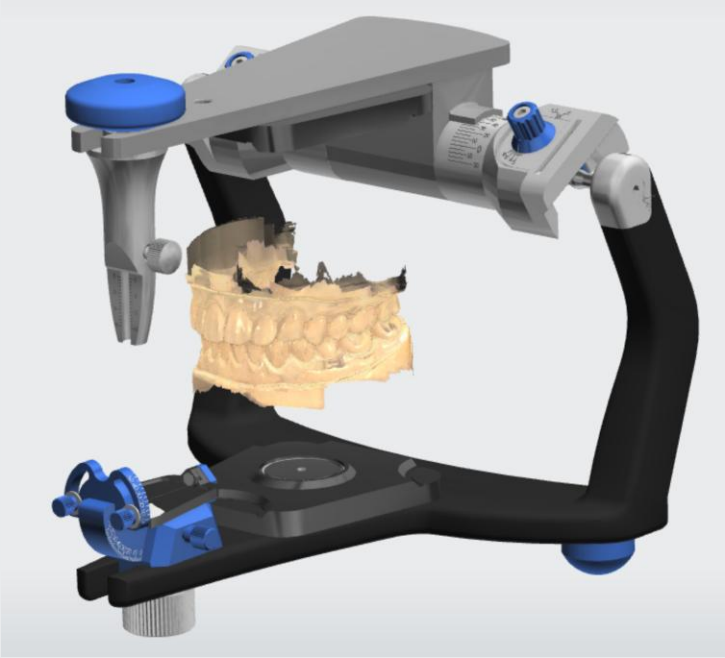
Contacts

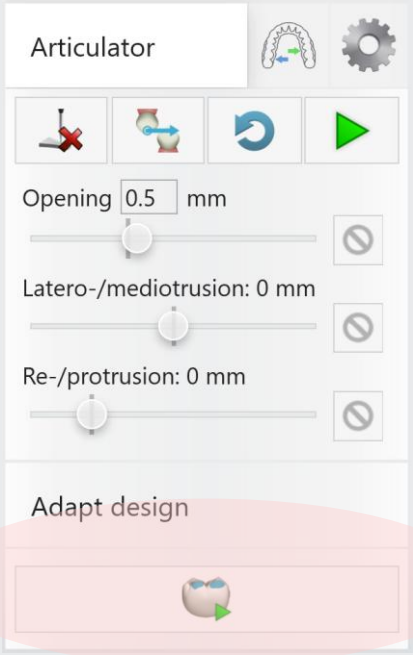
Automatic tools

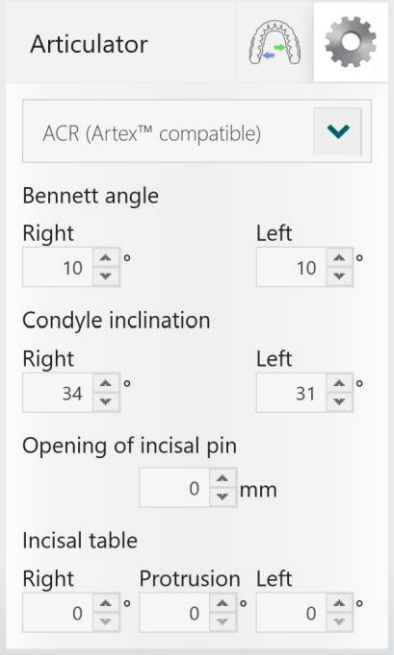
Prosthetic Design

<Note> About the Virtual Articulator

In the virtual articulator, the design is adjusted to match the simulated jaw movements, and the functional areas are trimmed accordingly.

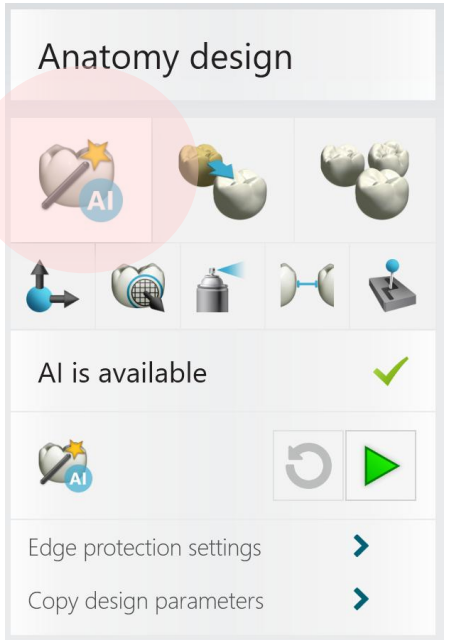


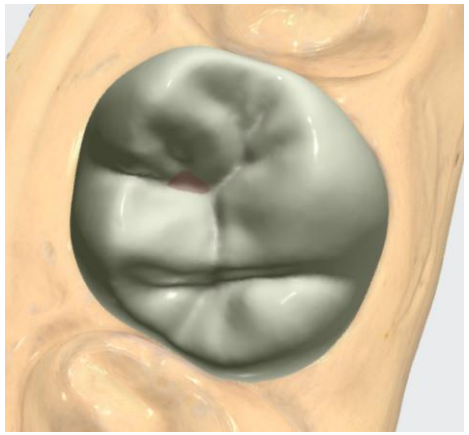




Prosthetic Design

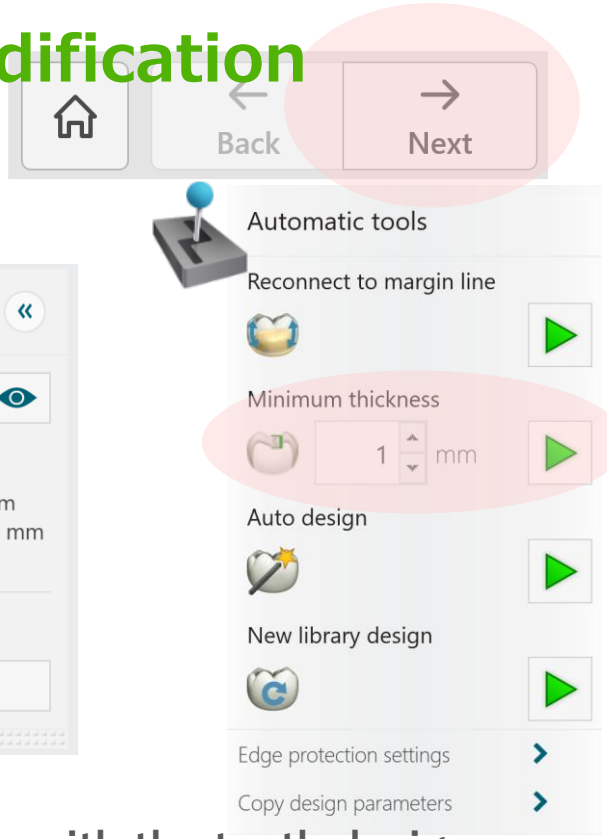
Prosthetic Design





20. The “AI Design” function performs the prosthetic design.

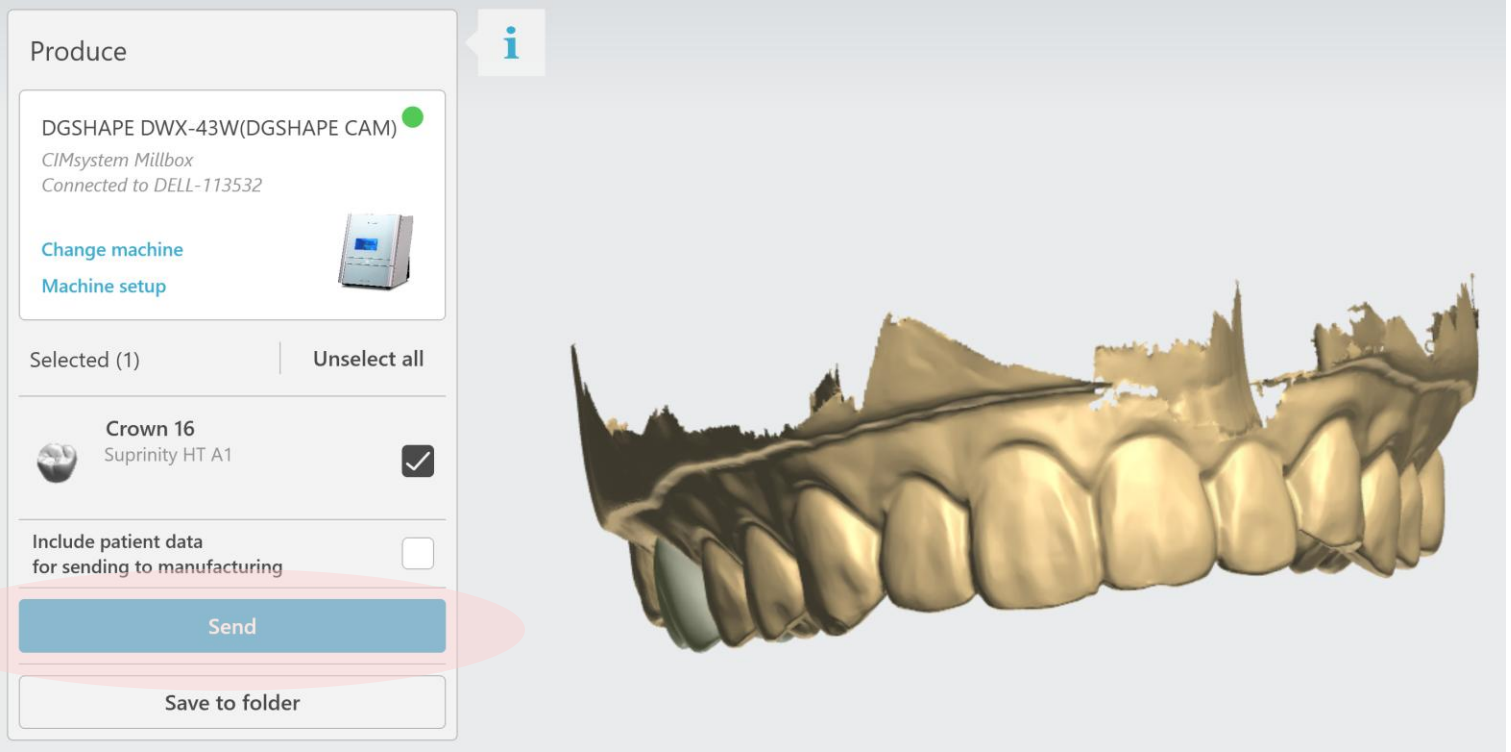
Prosthetic Modification



21. If there is an issue with the tooth design, “Validations” message will appear.
Use the [Correct] button to modify the prosthetic area.
You can also make adjustments using any of the five design editing functions.
Click the [Next] button to proceed to the next step.

Prosthetic Design

Sending Data to the Milling Machine



22. Click the [Send] button.
    MillBox will launch automatically, and the milling machine, material information, and prosthetic design data selected in 3Shape will be transferred automatically.

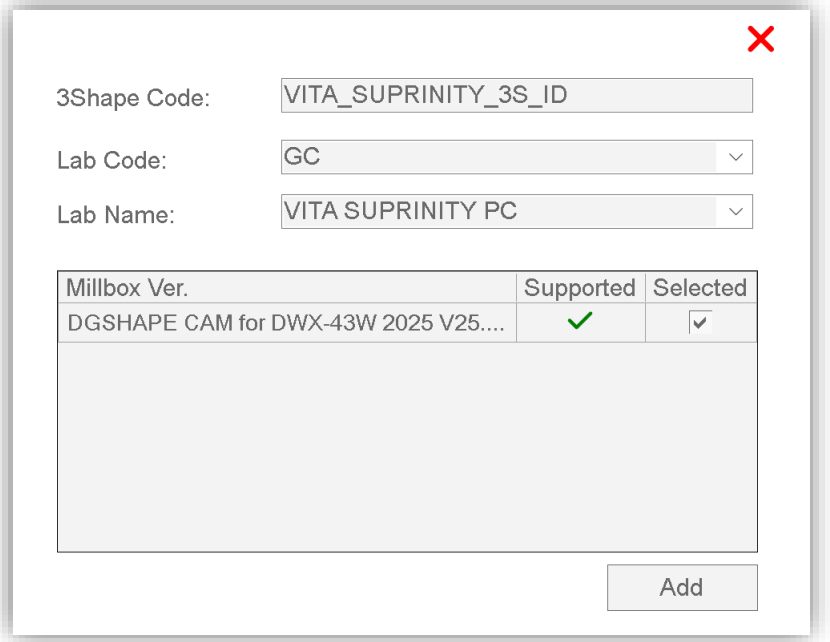
*If the displayed milling machine differs from the one you intend to use, click “Change Device” or “Device Settings” to select the correct machine.

Prosthetic Design

Sending Data to the Milling Machine

・When sending data to the processing machine for the first time, you need to complete the registration shown in the diagram below. Once registered, this screen will not appear from the second time onward.

・Enter the required information. Check the “Selected” and click the [Add] button to register.

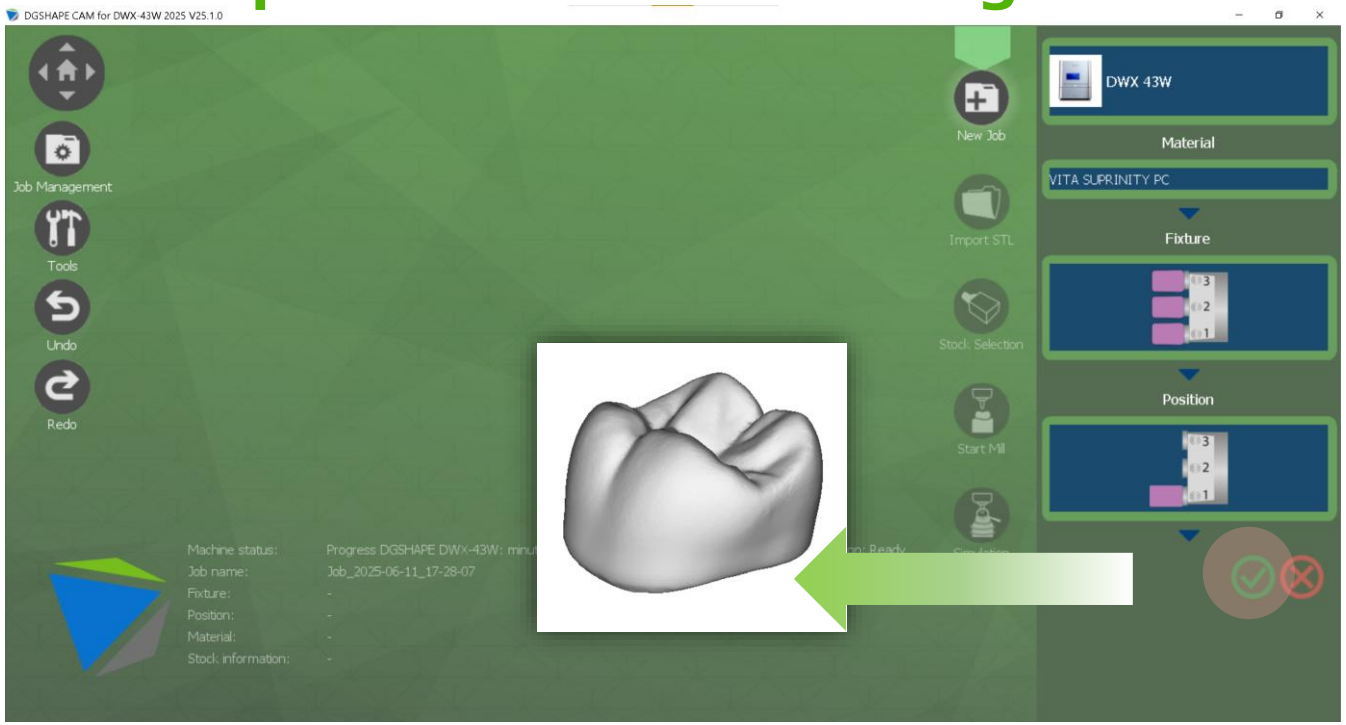


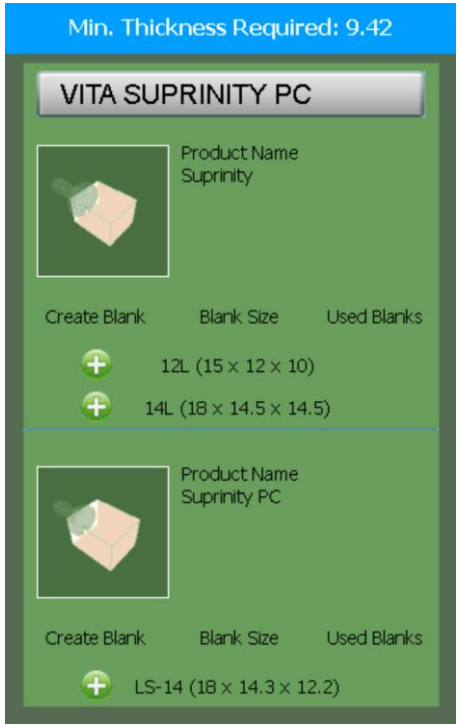
Lab Code	Material Name
gc	GLASS CERAMIC
gc	GC CERASMART
gc	GC INITIAL LISI
gc	NANO CERAMIC
pmma	PMMA
gc	Empress CAD
ve	VITA ENAMIC
gc	VITA MARK II
gc	VITA REAL LIFE
gc	VITA SUPRINITY PC
gc	VITA TriLuxe
gc	VITA TriLuxe Forte
gc	Straumann Nice
ult	Lava Ultimate
ti	Titanium
gc	Amber Mill
gc	Amber Mill Direct
gc	Amber Mill H
zrhip	Chairside Zirconia Roland
zrhip	PerFit FS
gc	Rosetta SM
gc	Hybrid Ceramic
gc	Kuraray Noritake Dental KATANA
gc	Tessera
gc	SHOFU Block
fg	Fiberglass
peek	PEEK
gc	ZEUS

List of Lab Codes and Material Names

Milling

Data Preparation for Machining



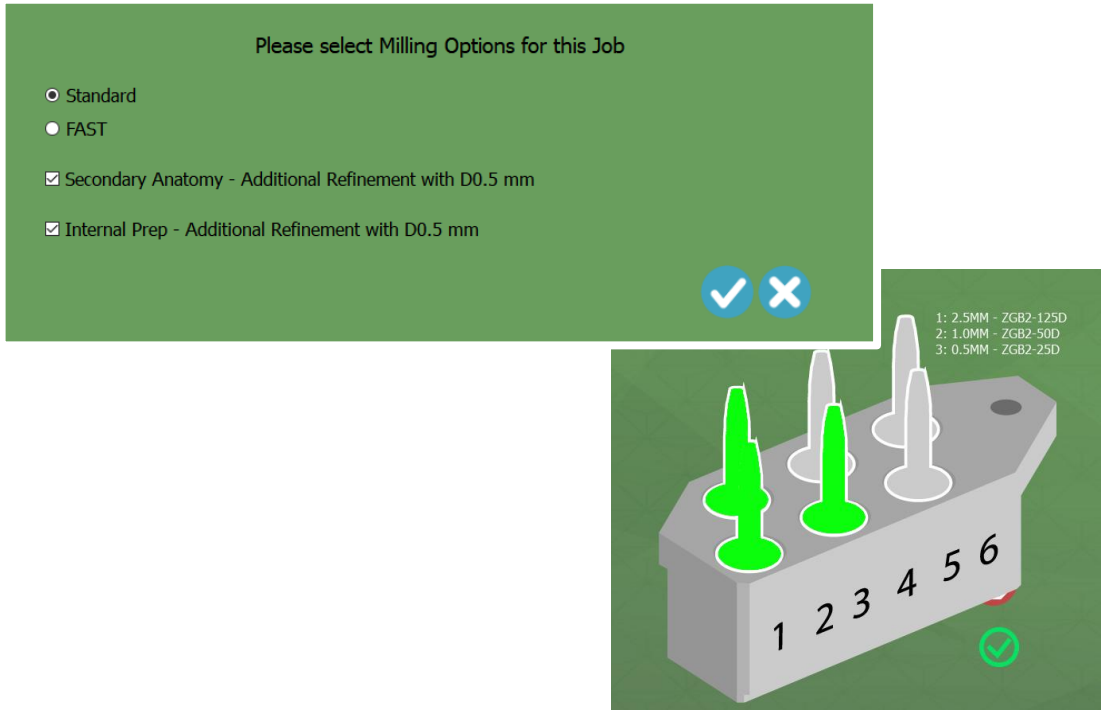


1. The specified material will be reflected. In this step, select the jig and position number. Click the ✓ to import the crown data.

2. Select the material size and click the ✓ button.

Milling

Data Preparation for Machining



3.Click on (Start Mill) to generate the machining file.

Stream Job to Mill: Send the machining file to the machine

Save Toolpath: Calculate and save the machining file (recommended)

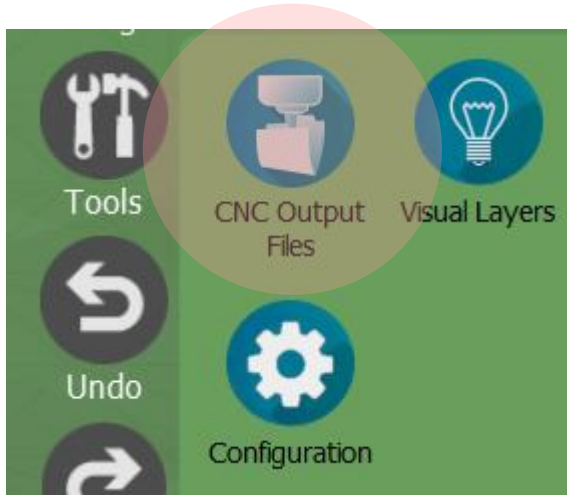
Add more restorations: Add another prosthesis

Prioritize Milling Order: Generate the processing file for the selected object

4. Select the milling option and click the button. Check the setting number of the milling bar and close with the button.

Milling

Data Preparation for Machining



Milling Start

5. Click (Tool) and select (Tool Path) to open the save location for the processing file.

Save the Milling file: C:¥DGSHAPECAM-43W-25¥cnc

6. Set the milling bar and material.
   Import the milling data into
   VPanel and start the processing.

Empowering People to Shape the Future

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