exocad ChairsideDB 3.1Rijeka

Exocam DWX-43W v25

Quick Guide

Introduction to exocam with SUM3D for DWX-43W Workflow

Workflow for DWX-43W Users

DGSHAPE
A Roland DG Group Company

Rev01 2025/06/30

Workflow

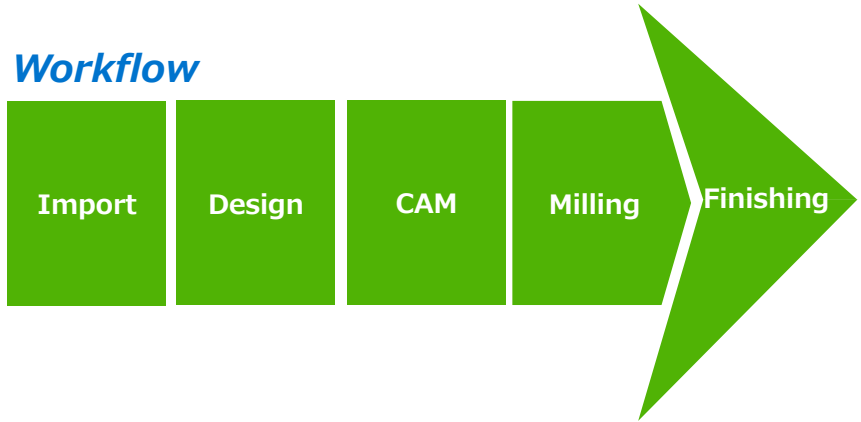
Import the scan data of the prepared abutment teeth. Design the crown using exocad.
Then create the machining data using exocam. The output machining data is processed through VPanel and machined using the DWX-43W.

Step1
Import intraoral scan data

Step2
exocad: Design Crown

Step3
exocam: CAM process

Step4
Milling



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 exocad ChairsideCAD 3.1 Rijeka or later installed?

No → Update/install exocad Chairside CAD 3.1 Rijeka or later.

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.**

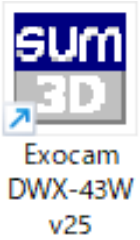
*For installation settings, please contact the dealer.

[Installation EXOCAM]

Exocam DWX-43W v25

Unzip the file [EXOSUM3D_DWX-43W-HQ-2025_05_25.zip].

Install EXOSUM3D_DWX-43W-HQ-2025_05_25¥Setup.exe by right-clicking the file and selecting "Run as administrator“.
Run EXOSUM3D_DWX-43W-HQ-2025_05_25/Setup.exe as Administrator to install the software.
Once the installation is complete, a shortcut icon named [Exocam DWX-43W v25] will be created on the desktop.



*This version of Exocam uses the SUM3D engine and is a CAM software that integrates seamlessly with exocad's CAD system, compatible with the DWX-43W.

*For installation settings, please contact the dealer.

[Installation EXOCAD]

exocad ChairsideDB 3.1Rijeka

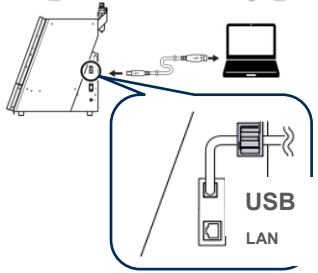
Regarding the Exocad ChairsideCAD installer, please obtain the “exocad-ChairsideCAD for DWX43W” installer directly from exocad GmbH.

To launch Exocad,
for example:
navigate to CHAIRSIDE EXOCAD_Roland DWX-43W_2025¥exocad-ChairsideCAD3.1-2023-09-12_DWX43W¥exocad-ChairsideCAD3.1-2023-09-12_DWX43W¥ChairsideDB¥bin¥
and double-click **DentalDB.exe**.
It is recommended to create a shortcut for DentalDB.exe and place it on the desktop.

Preliminary Setup

*For LAN settings, please contact the dealer.

[LAN Setup]



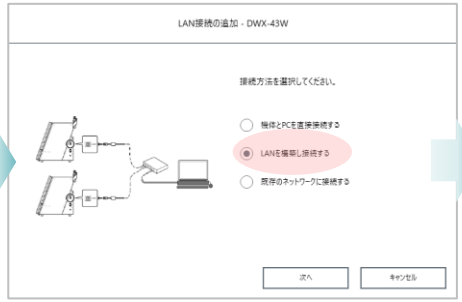
(1)Connect the PC and the DWX-43W using a USB cable.

(2) Launch VPanel and select the DWX-43W you want to use.

(3)Click on [Machine Settings].

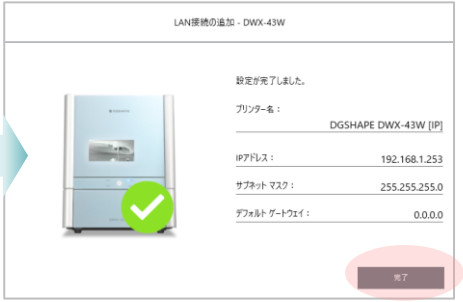
(4)In the LAN settings section, click [Add Connection] .

(5)Click [Next] .



(6)Select “Set up and connect the LAN”.

(7)Confirm the IP address and click [Next] .



⑧ Click [Complete].

Step1　Import the intraoral scan data

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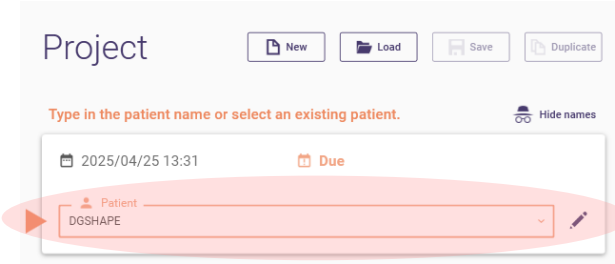
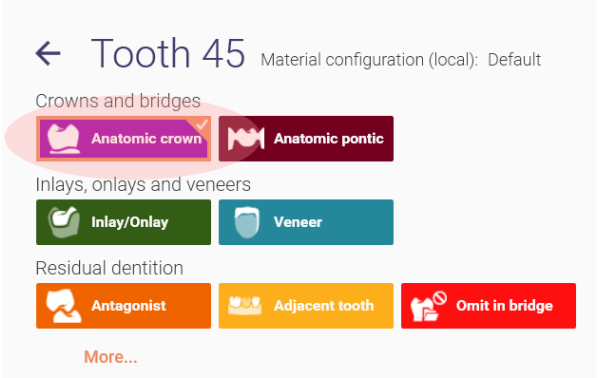
Step1 Import the intraoral scan data



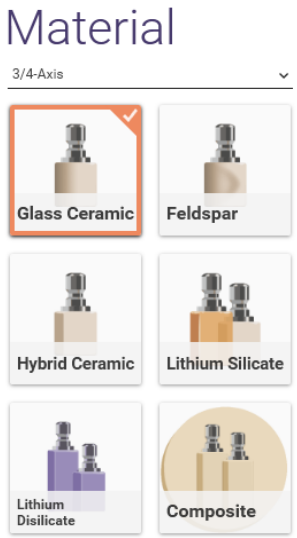


① First, register the patient.
Enter the partient name.

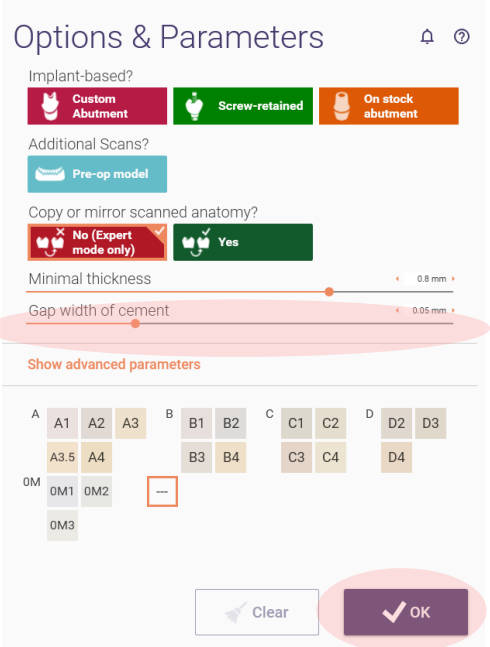
②Click on the tooth.

③ Select Anatomic crown (Anatomic crown).

Step1 Import the intraoral scan data

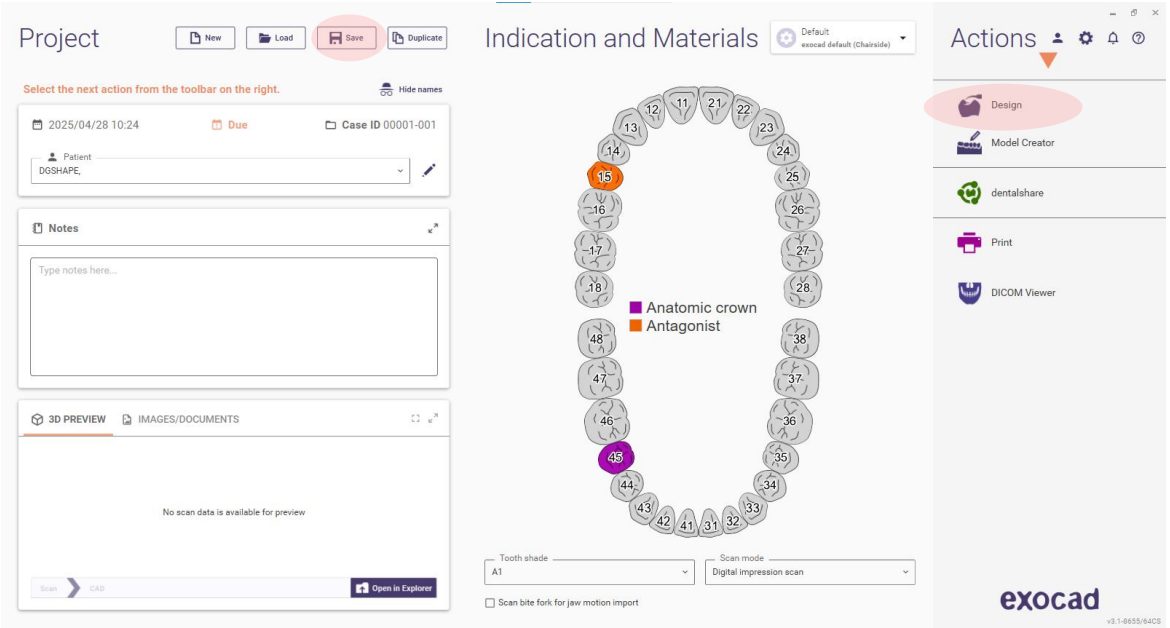


④ Select the Material.
The materials selected here will be reflected in the materials of exocam, but you can change the materials in exocam.



⑤ Set the 'Gap width of cement' and click the OK (OK) button.

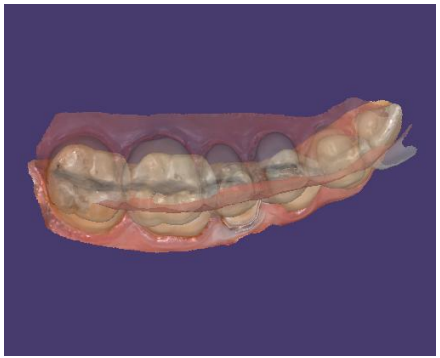
Step1 Import the intraoral scan data



⑥ Return to the initial registration screen and click the Save (Save) button at the top left of the screen. Next, click the Design (Design) button at the top right.

Step1 Import the intraoral scan data

⑦ Import the lower jaw scan data.



⑧ Import the upper jaw scan data.

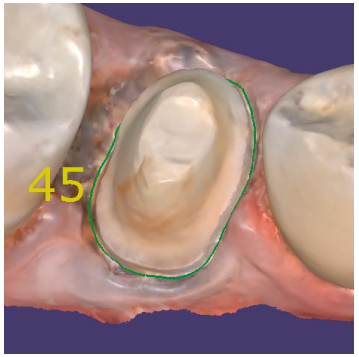
Step2 Design crown

Step2 Design crown

⑨ Adjust the orientation of the scan data.

Orientate the model data so that the occlusal view is seen.

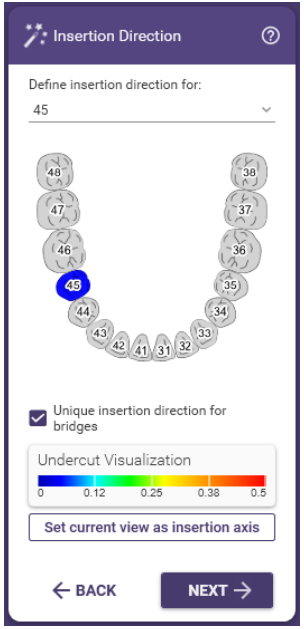
If correct, click the NEXT (Next) button to proceed.

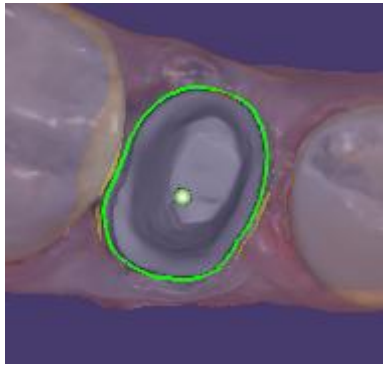


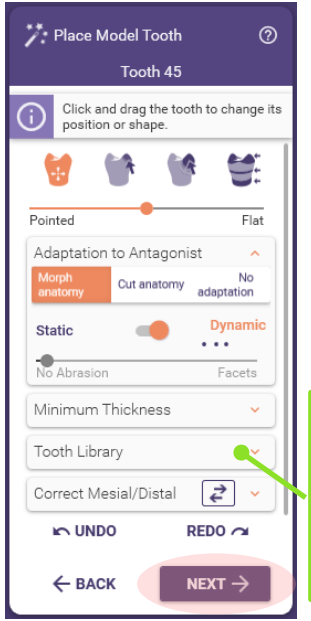
⑩ In Detect (Detect) function, click the margin line to start automatic detection. If automatic detection fails, delete the margin line with CLEAR (CLEAR) and redraw it manually. Use Free (Free) in Correct/Draw (Correct/Draw) to manually draw the margin line.

Click the NEXT (NEXT) button to proceed

Step2 Design crown



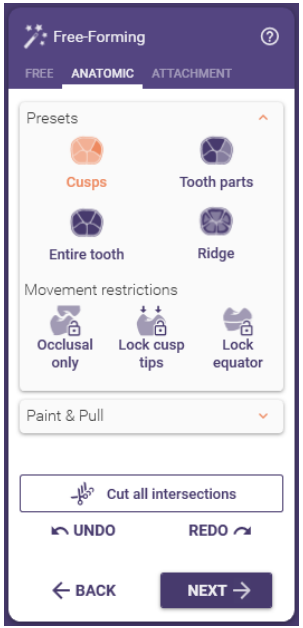


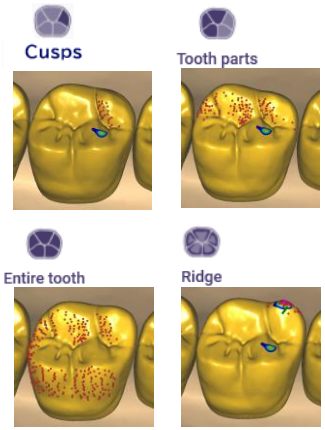


⑪ Check the insertion direction of the crown , and click the NEXT (Next) button to proceed."

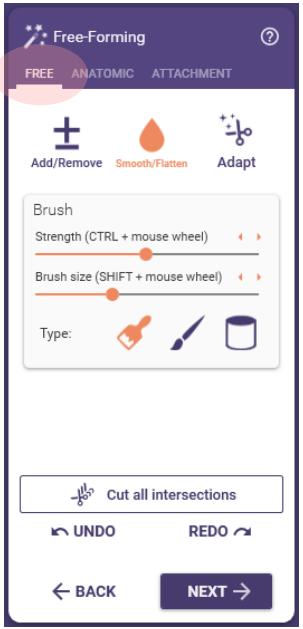
⑫ You can change the position and shape of the crown by dragging and dropping it. You can change the type of tooth morphology from the 'Tooth Library'. You can perform adjustments from 'Adaptation to Antagonist', but please do not cut the morphology at this stage. Click the NEXT (Next) button to proceed to the next step.

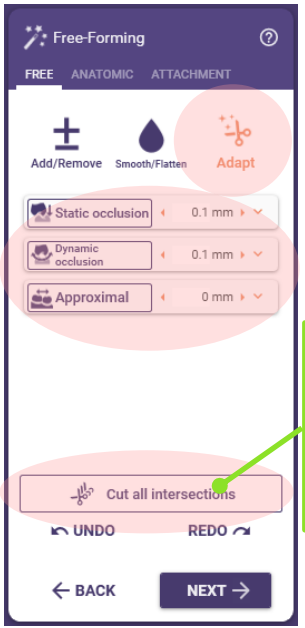
Step2 Design crown

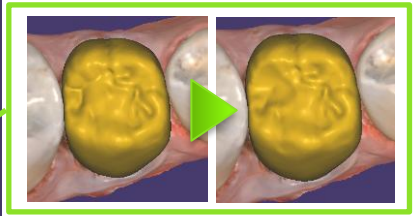




⑬ In the anatomical tab function, you can add or remove morphology by left-dragging.



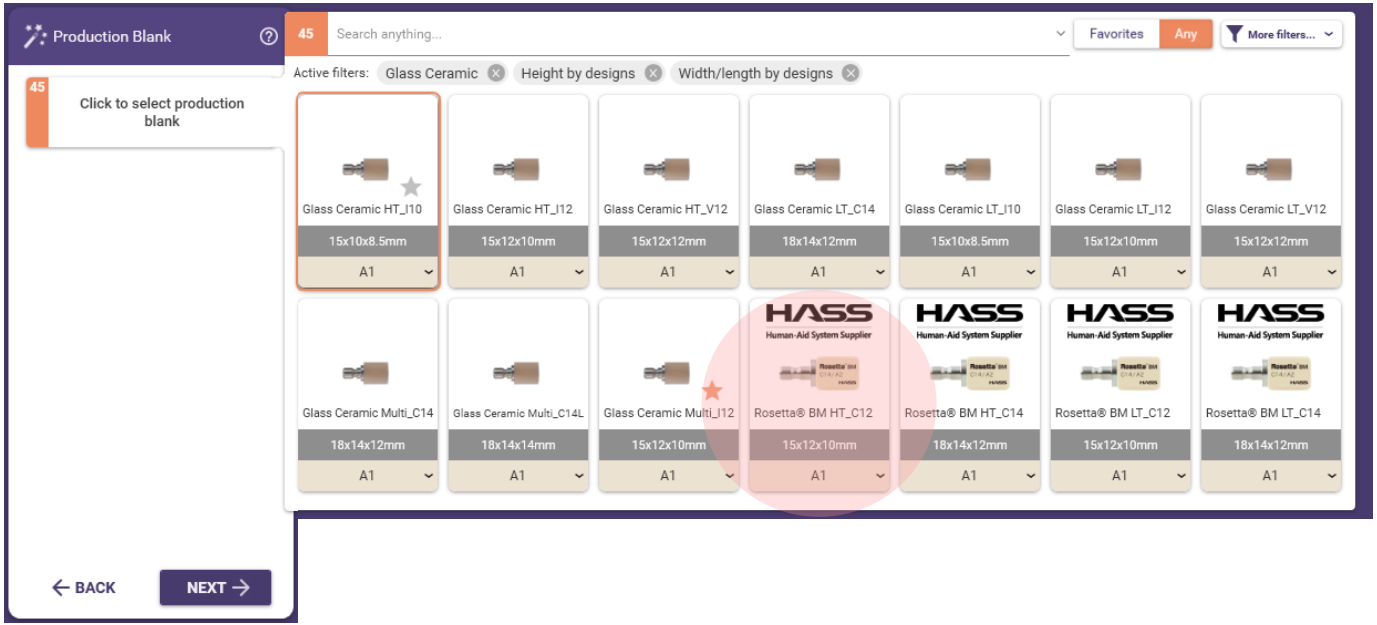


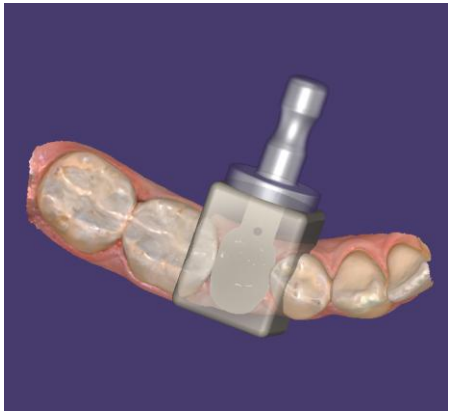


⑭ In the Free tab, you can also add or remove morphology using the Add/Remove (Add/Delete) function. The Adapt (Adapt) function allows you to adjust the occlusion with the opposing and adjacent teeth. Entering a negative value will cause interference, while entering a positive value will create a gap. After entering the values, you can perform the adjustment all at once using the Cut all intersections (Cut all intersections) button. The Smooth/Flatten (Smooth/Flatten) function smooths out the added or removed morphology of the tooth. Once the crown design is complete, click the NEXT (Next) button to proceed to the next step.

Step3 CAM process

Step3 CAM process

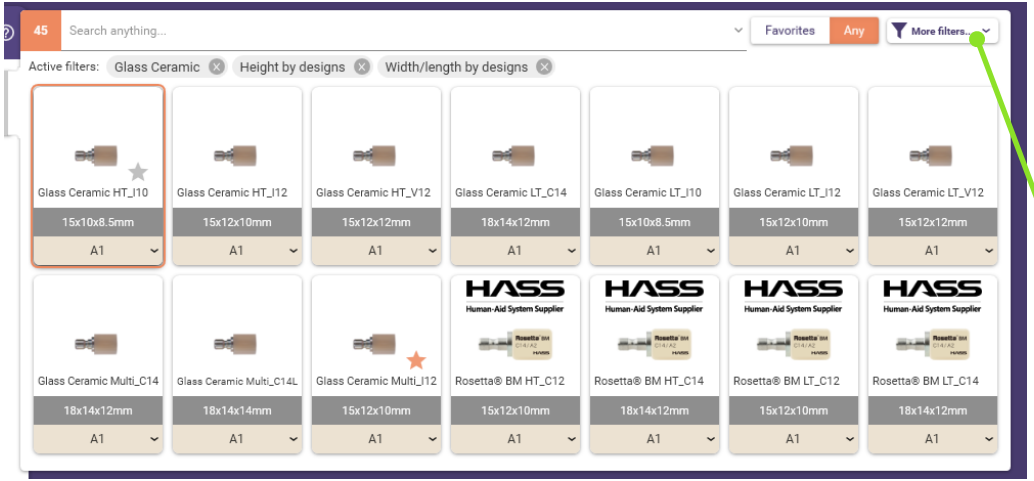


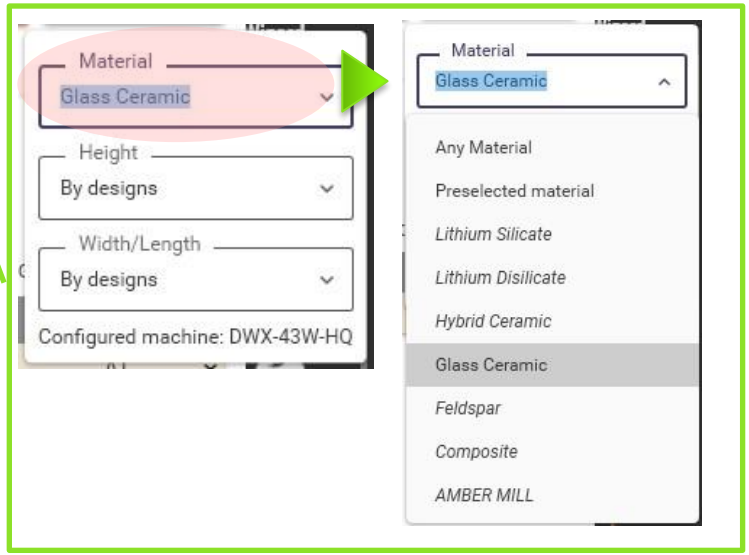


⑮ Set up the CAM process.

The type of glass ceramic specified during patient registration will be displayed, so specify the manufacturer and size of the material to be milled."

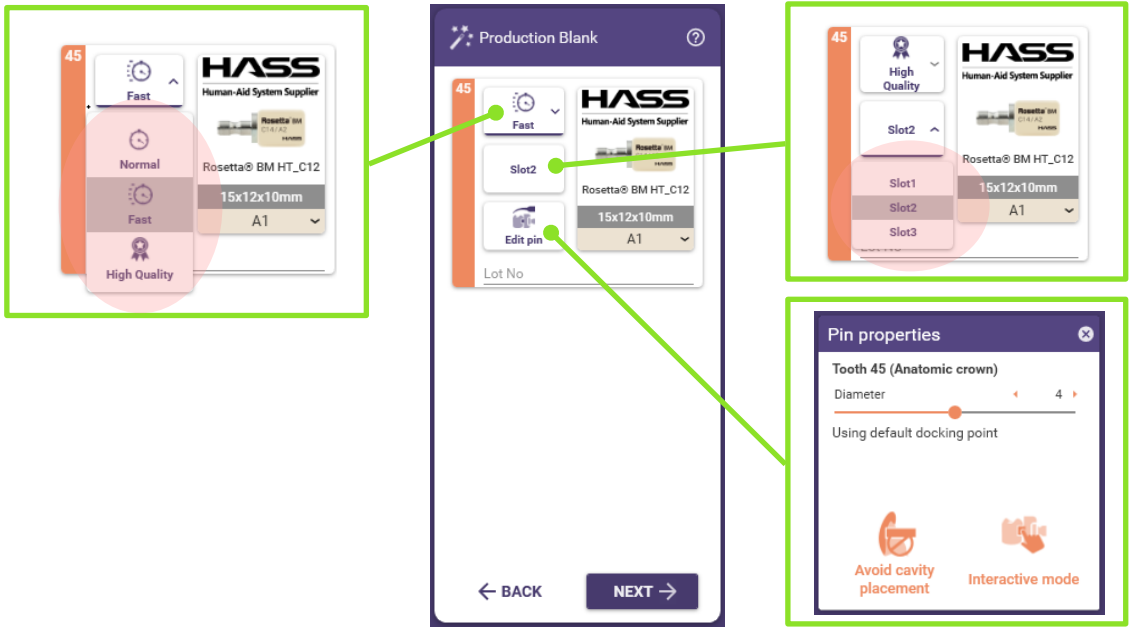
Step3 CAM process



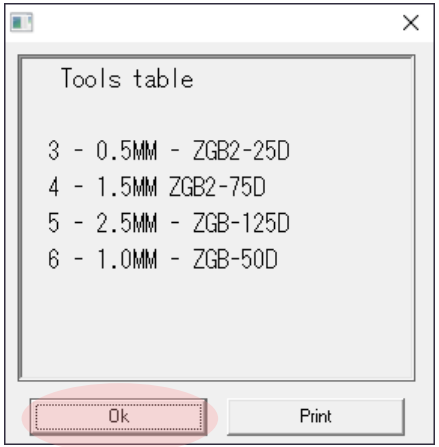


⑯ If you want to change the material from the glass ceramic specified during patient registration, click the material dropdown menu from [More filters] to change the material.

Step3 CAM process

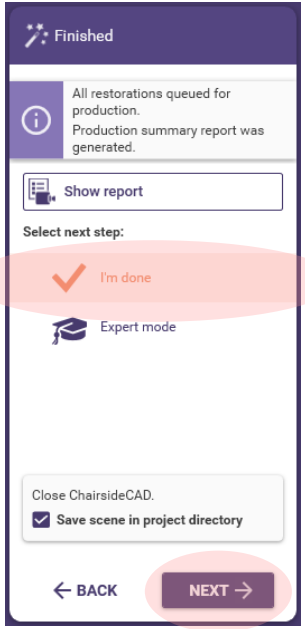


⑰ Set the machining conditions, milling position, and support size.
Click the NEXT → (Next) button to start the calculation.



⑱ When the tool table is displayed,
click the Ok (OK) button.

Step3 CAM process



⑲ Check the “I’m done” button, and click the NEXT (Next) button to finish.

*The machining files are saved in the folder: C:¥MachineTrayQueue.

Step4 Milling

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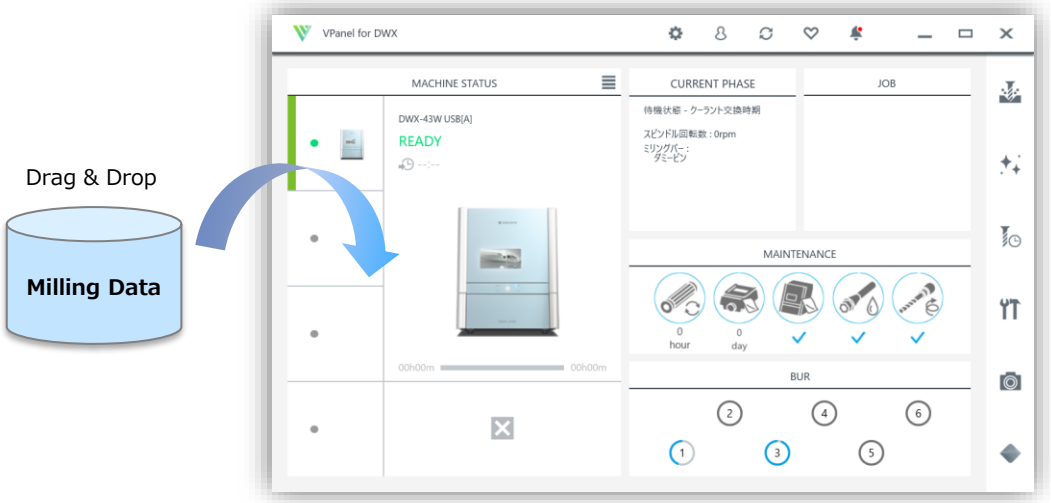
Step4 Milling



⑲ Set the milling bar and material.

Import the processing data into VPanel and start the processing.

DWX-43W Material

Lithium Silicate	Lithium Disilicate	Hybrid Ceramic
VITA SUPRINITY® PC Block PC-14	Cameo Glass ceramic 15.5*11*13	SHOFU Block HC S HT/LT/S-2L
Dentsply Sirona Celtra® DUO C14 HT	Cameo Glass ceramic 18*13*15	SHOFU Block HC M HT/LT/M-2L
Dentsply Sirona Celtra® DUO C14 LT	Cameo Glass ceramic 32*15*15	YAMAKIN KZR-CAD HR2 S/M/L
Lithium Silicate HT C14	Cameo Glass ceramic 40*15*14	YAMAKIN KZR-CAD HR2 GR S/L
Lithium Silicate LT C14	GC Initial® Lisi HT-14	YAMAKIN KZR-CAD HR3 M/L
	GC Initial® Lisi LT-14	VITA ENAMIC® Block EM-10
	Lithium Disilicate HT B32/B40/B40L/C14/I12	VITA ENAMIC® Block EM-14
	Lithium Disilicate LT B32/C14/C16/I12	VITA ENAMIC® multiColor EMC-14
	Lithium Disilicate MO C14	VITA ENAMIC® multiColor EMC-16
	Lithium Disilicate MT C14	GC CERASMART® BL 12/14/14L
	UPCERA UP-CAD Glass Ceramic HT 18*15*13	GC CERASMART® HT 12/14/14L
	UPCERA UP-CAD Glass Ceramic HT 32*14*14	GC CERASMART® LT 12/14/14L
	UPCERA UP-CAD Glass Ceramic HT 40*15*15	VOCO Grandio® Blocs 14L HT/LT
		Hybrid Ceramic HT 12/14/14L
		Hybrid Ceramic LT 12/14/14L
		3M Lava ULTIMATE HT 12/14L
		3M Lava ULTIMATE LT 12/14L
		iTENA NUMERYS HC 12/14
		UPCERA Hyramic 14 HT-S/LT-S/ML

DWX-43W Material

Glass Ceramic	Feldspar	Composite
Glass Ceramic HT I10/I12/I8/V12 Glass Ceramic LT C14/I10/I12/V12 Glass Ceramic Multi C14/C14L/I12 Rosetta® BM HT C10/C12/C14 Rosetta® BM LT C10/C12/C14	VITA VITABLOCK® Markll Block I12/I14/I10/I8 VITA VITABLOCK® TriLuxe forte TF-12/TF-14 VITA VITABLOCK® TriLuxe forte TF-14-14 VITA VITABLOCK® TriLuxe forte TRI-12/TRI-14 VITA VITABLOCK® TriLuxe forte TRI-14-14 VITA VITABLOCK® TriLuxe forte RL-14-14	COLTENE BRILLIANT Crios Block HT 12/14 COLTENE BRILLIANT Crios Block LT 12/14 COLTENE BRILLIANT Crios Block ST 14 ATOS BLOCK Smart Dent ATOS 14L HT ATOS BLOCK Smart Dent ATOS 14L LT

DWX-43W Material

AMBER MILL		
Amber® Mill Direct C14 Amber® Mill HT C12/C14/C32/C40 Amber® Mill LT C12/C14/C32/C40 Amber® Mill MO C12/C14/C32/C40 Amber® Mill MT C12/C14/C32/C40		

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