DGSHAPE CAM for DWX-43W

Quick Guide

Glass ceramics milling operation

 Ver. 1. (20241204)

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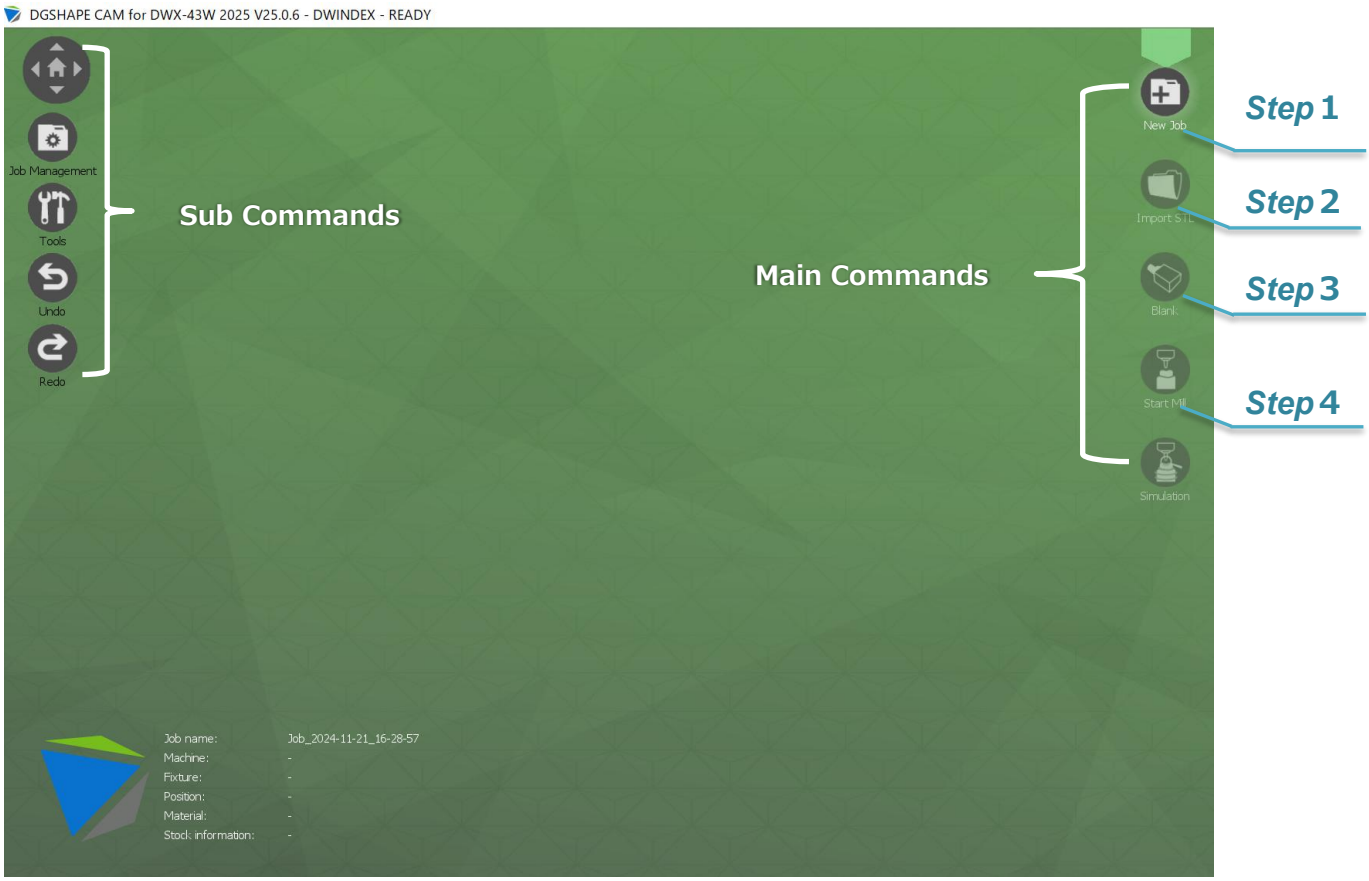
Basic CAM Operation

User Interface

In this CAM software, the main functions are primarily represented by the icons on the right side. The operations proceed in order from top to bottom.

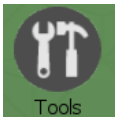
Once one command is completed, the next command will automatically start, so there is no confusion about what to do next. The necessary command dialogs for the operations will automatically launch, allowing the process to proceed interactively.



◆Main Commands

Icon	Command	Description
	New Job	Open the new CAMfile, set-up the kinds of material and position of jig
	Import STL	Imports a STL file
	Material size	Imports the material data selected from the list in the library
	Start Mill	Exports a milling data file
	Simulation	Allows to see milling simulation

◆Sub Commands

Icon	Command	Description
	View Point	Change the view direction
	Open Project	Confirm the details of the current opened CAMfile
	Tools	 .PRN Files ： Open the stored milling data Show/hide ： Switch the jig(display/non-display) Report： Get the milling report Curves functions ： Modify the margin line Configuration： Change the software configuration settings
	Undo	Go back to the previous state
	Redo	To do over again

◆DGSHAPE CAM original command

Icon	Command	Description
	Quick Mill	This command will export a milling file just by defining a STL file. The command will use pre-registered types of material, sizes of material and positions of the jig. (Registered setting can be customize freely.)

Step 1 Create a new CAM file

In Step 1, you will define what kind of materials and fixtures you will be using

1-1. Program start

Double click the  icon on your desk-top, start DGSHAPE CAM.

1-2. Open a new job

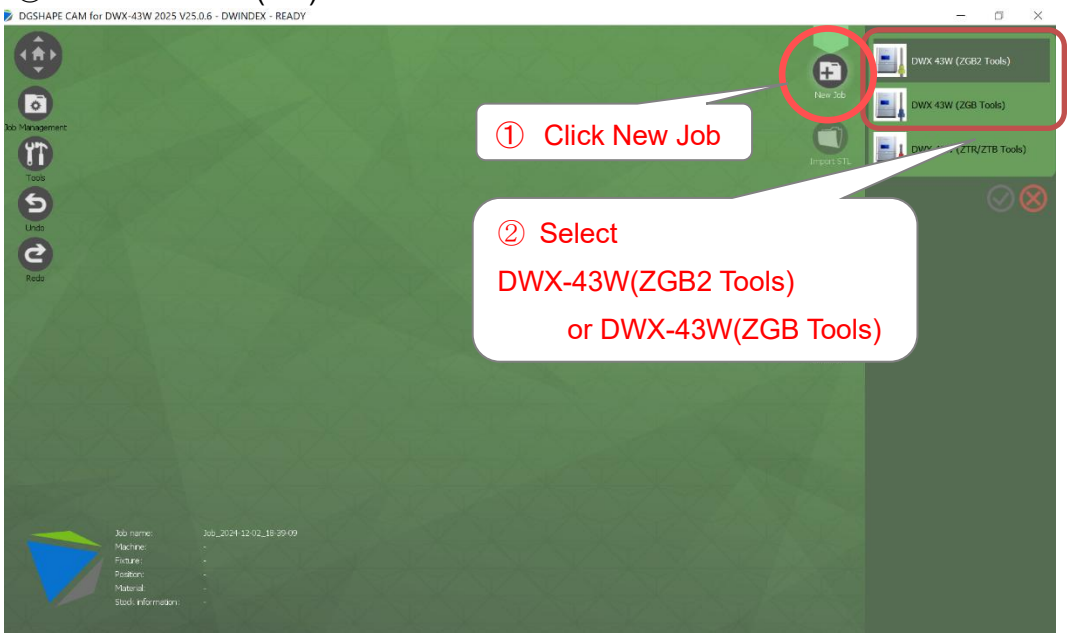
① From the main tool bar, click the  (New Job) icon.

② Select **DWX-43W – ZGB** or **DWX-43W – ZGB2**

③ Select GLASS CERAMIC in the Material box.

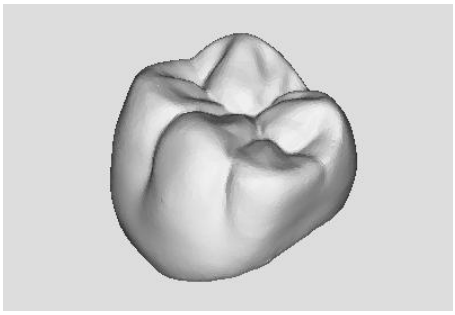
④ Select  (No.2) in the Position box.

⑤ Click the  (OK) button.



Step 2 Import the STL file

In Step 2, you will import the STL file. Saving the file in Step 1 causes the next  (Import STL file) command to start automatically. Here, you will select the STL file and the kind of prosthetics you need.



Sample data：FC_POST_MOLAR_1.stl

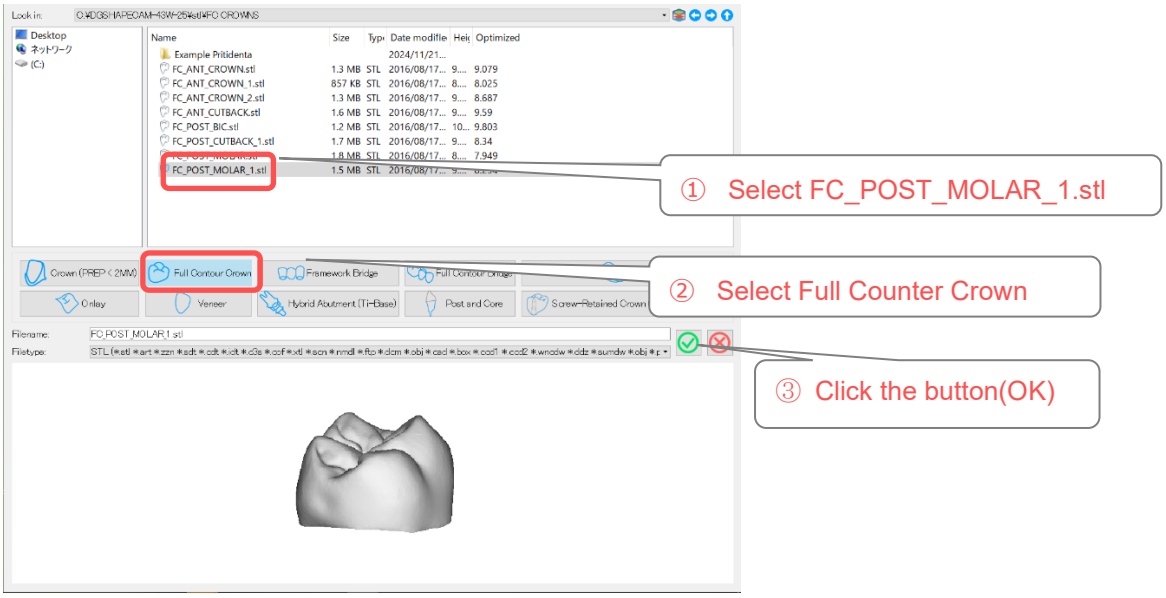
2-1. Import the STL file

① Select “**FC_POST_MOLAR_1.stl**”

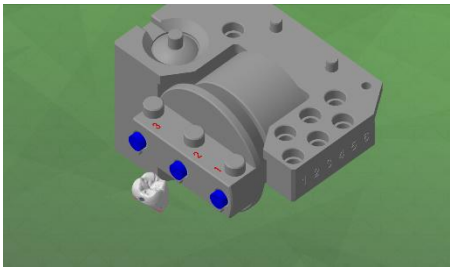
② Select the object type. Click the 

(Full Countour crown) icon in the Type Object field.

③ Click the  (OK) button to start importing the STL file.



Note



The crown image will be imported onto the work space.

Step 3 Import the material data

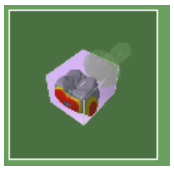
In Step 3, you will import the material data.

3-1. Import material data

① In the Name box, click “**E.MAX C14**” to select the size of the material.
The STL file will be imported to the adaptable material size automatically.

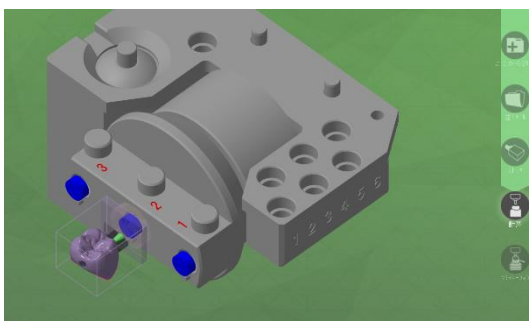
※In case the STL file does not fit in the material size, the overflown part will be displayed in red as exemplified below.

Example.



② Click the (OK) button.

Note



An image of the pin-type material is now added to the work space.

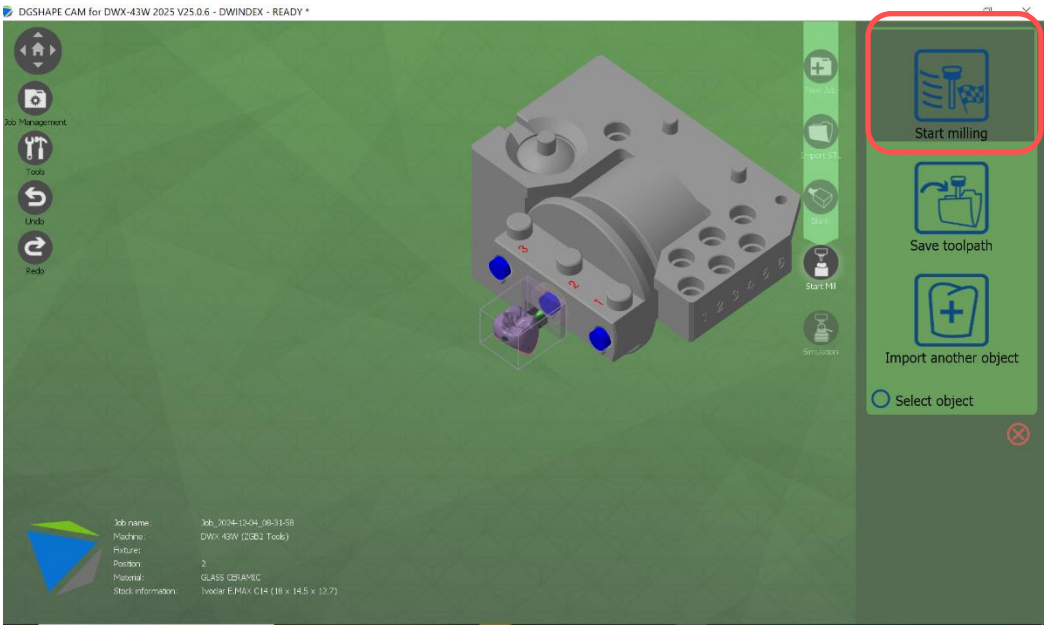
Step 4 Export the milling data file

In Step 4, you will export the milling data file. The exported file (*.prn) will be stored in “C:¥DGSHAPECAM−43W−25¥cnc”. This file sends the milling data to the DWX-43W via the VPanel.

*The exported file includes the entire machining procedures.

4-1. Export the milling data file

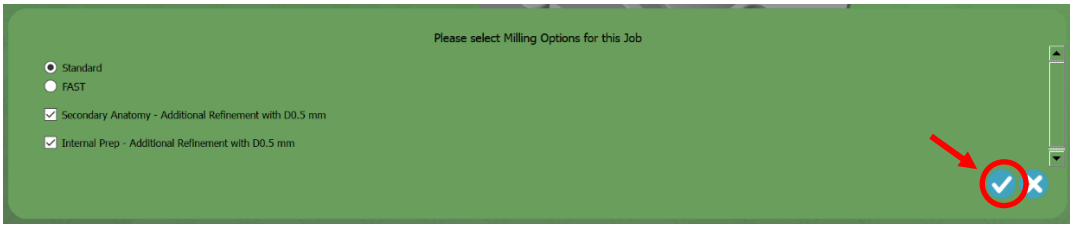
(Start milling) exporting way



① Click the 

(Start milling) button.

② Check the milling options and click the checkmark



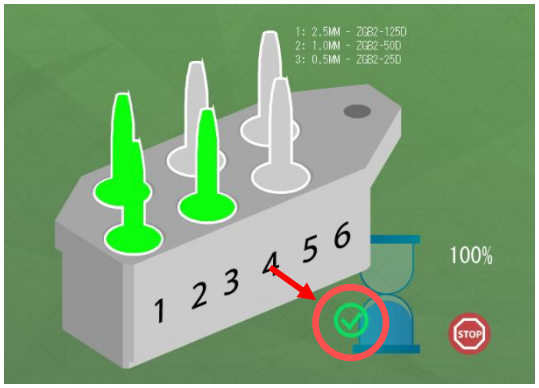
Standard : Milling Quality (High), Milling Time (Long)

FAST : Milling Quality (Low), Milling Time (Short)

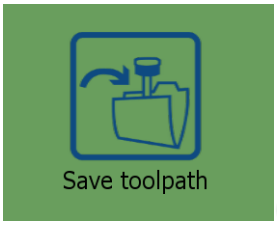
Secondary Anatomy / Internal Prep : Fissure/ Pocket additional milling

③ Prepare the machine side. (Attach the materials and tools)

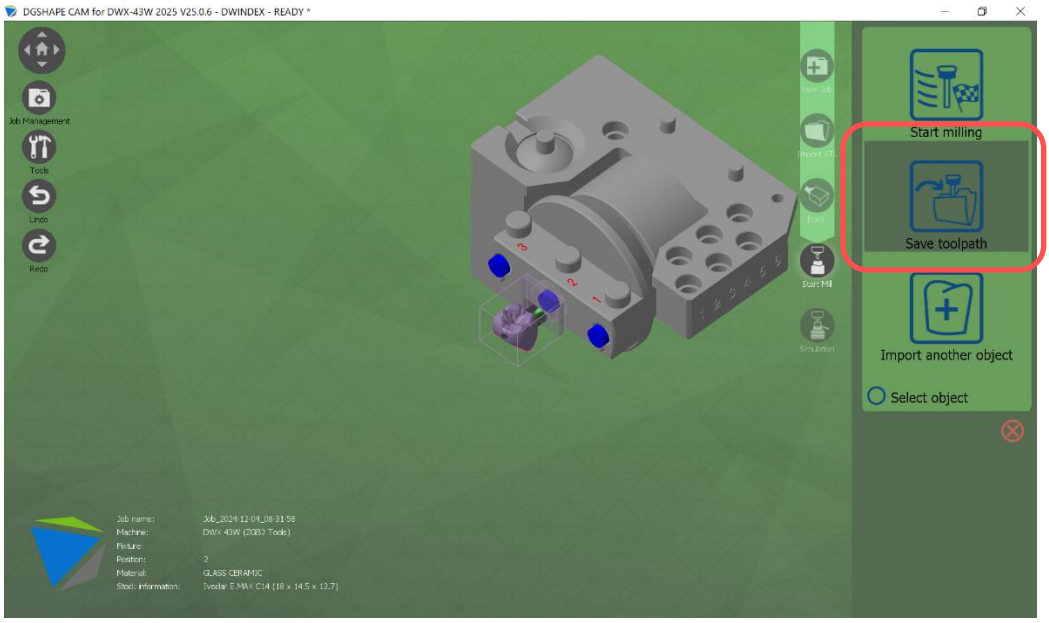
④ Click the checkmark to directly output the machining file to the machine.



※Before starting to mill, set up each milling bur in the designated stocker (number) as indicated on the screen.



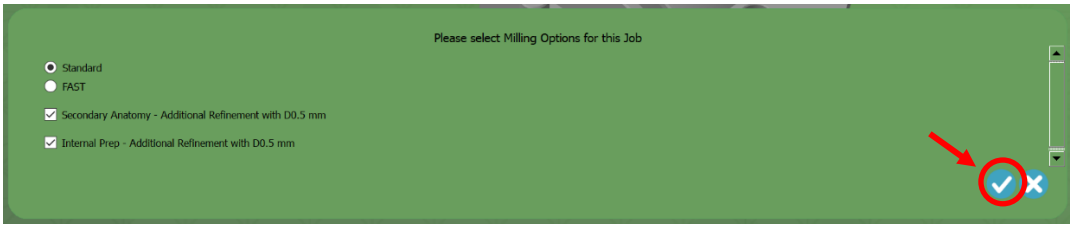
(Save toolpath)exporting way



① Click the 

(Save toolpath)button.

② Check the milling options and click the checkmark



Standard : Milling Quality (High), Milling Time (Long)

FAST : Milling Quality (Low), Milling Time (Short)

Secondary Anatomy / Internal Prep : Fissure/ Pocket additional milling

③ The program starts calculating the milling paths.

④ The exported file（*.prn）will be stored in C:¥DGSHAPECAM-43W-25¥cnc.

⑤ Open the storage folder for the milling files in" Tools" ＞ .PRN Files.

⑥ Open the VPanel, drag-and-drop the milling file to start importing.