

# PlanCAD Premium CAD/CAM Workflow



## SCAN

Verifying the amount of scan data will ensure a better fitting restoration.



Upper or Lower is the default based on the selected tooth number.

### Scan Prep Goals

- 100% of Prep.
- Contact areas.
- 2-3 mm of buccal gingival data.



### Data Density View

Dark blue areas indicate missing data.



### Eraser Tool

Tongue, Cheek, Fingers or Extra Data.

### Scan Opposing Goals

- 100% occlusal.
- 2-3 mm of gingival data.
- Capture Lingual data if sending to lab.



### Scan Buccal Goals

Start on the upper and capture all teeth and gingival data in prior scans.



### Bite Alignment

Verify Alignment and proper reduction based on Material before moving to the margin tab.



## MARGIN

### Orientation

Automatically active; use the left mouse button to position the model.



Orientation can be deactivated or activated at any time using this icon.



### Trace Margin

From the occlusal view, mark the margin on the shoulder.



Use Move Margin to adjust placement.



Use Add Segments to redraw a portion.



**Occlusal** - Equal amounts of buccal/lingual axial walls.

**Distal** - Align buccal cusp tips.

**Buccal** - Verify marginal ridges are parallel with red line.



## Launch to PlanCAD Premium

Select Exit in the upper left

Highlight Case Click **Launch to PlanCAD Premium**

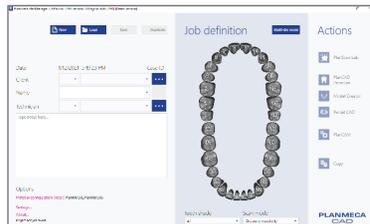


## DESIGN

Follow the design flow. Return to a section and repeat any necessary steps when needed.

### 1 - Case will open in PlanManager

Click **View in DentalDB** (pop up in lower right corner) and case will automatically pull in from PlanCAD Easy



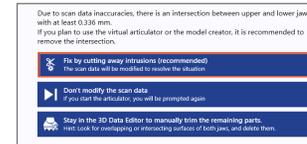
### 5 - Follow the steps outlined in the wizard

#### a) 3D Data Editor-Trim Model and fill holes as needed.

Click **Next**.



#### b) Click **Fix by cutting away intrusions (recommended)**.



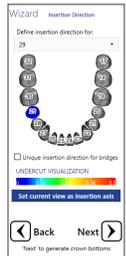
#### c) Margin Line Detection -

If you marked your margins in Planmeca PlanCAD Easy, the margins will transfer over. If you want to modify, click **Correct/Draw** before moving forward. Click **Next**.



#### d) Insertion Direction-

Adjust until there is minimal pink. There should be no pink visible on the margin. Click **Set Current View as Insertion Axis**. Click **Next**.



### 2 - Confirm setup (designated tooth and material)

### 3 - Click Save

### 4 - Click Launch

PlanCAD Premium



#### e) Crown Bottoms -

Use default settings here as they are specific to the material type selected. Click **Next**.



#### f) Place Model Tooth Click **Advanced Placement**.

In the Advanced Placement you can move, rotate, and scale. Ensure the restoration is aligned and contacting adjacent teeth. Click **Next**.



#### g) Free-Forming- Refine contours, marginal ridges, embrasures, and cusps. **FREE**- Use to make small adjustments to contours. **ANAT**- Use to further refine axial walls, contours, embrasures, nonfunctional cups, occlusal table, and marginal ridges.

**ADAPT**- Use to adjust occlusion and interproximal contacts. Click **Next**.



#### h) Merge and Save Restorations. Click **I'm Done**. Click **Next**.





# Nesting and Milling

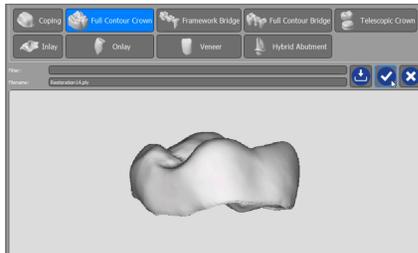
1 - Click PlanCAM



2 - Click New Job, Choose Material and click the checkmark in the bottom right corner.

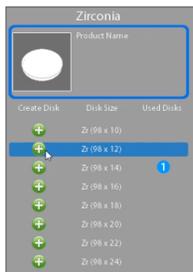


3 - Select the type of restoration. The case should automatically appear at the bottom. Click the checkmark above the restoration.

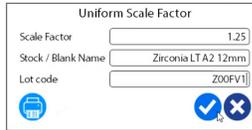


4 - Select the appropriate disc.

a) To enter a new disc, click the green addition sign.



b) Enter Scale Factor, Name, and Lot Code. The Stock/Blank Name can be a name that you decide. Scale Factor and Lot code are found on the side of the disc.



c) The software will automatically nest the restoration in the disc. To make modifications you can move use the colored arrows to move the restoration.



d) Left click and hold the mouse to move the restoration. If you are outside the milling parameters, the restoration will appear red.



e) Left click on the sprue/pin to move or rotate it. Add or delete sprues/pins inside the sprue/pin window appears.



5 - Adjust sprue/pin diameter to 2.5mm and ensure Pin Type is Not-Cuttable. Click the checkmark.



6 - Click the checkmark in the bottom right corner and Save Toolpath will appear.



7 - Click the first box 'EXTERNAL UNDERCUTS (AUTO)'. The last box will automatically be checked off for you as a default setting. Click the checkmark.



8 - You're done! Your restoration will be sent to the Planmeca PlanMill® 50 S.

