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.

Occlusal - Equal amounts of buccal/lingual axial walls.
Distal - Align buccal cusp tips.
Buccal - Verify marginal ridges are parallel with red line.

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.

PLAN

Goals

Rotate - check cusp position.

Resize - Adjust size of tooth from occlusal view.

Move - Check that tooth is in occlusal plane from buccal view.

DESIGN

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

1 - Generate

Create the initial proposal.

AutoGenesis **ON** - Click Apply

2 - Fit

Customize the proposal to fit in its place over the prep.

Use **Incremental Change Tools** to adjust overall fit.

Click an arrow next to the desired adjustment. Twist, Rotate, or Expand to fit in place then click apply.

3 - Form

Refine contours, marginal ridges, embrasures, and cusps.

Use **Freeform Change Tools** to make small adjustments to contour.

Helpful Hint *Click on Material thickness tool to check proper thickness of restoration while contouring the tooth.*

Rubber Tooth can be used to adjust: axial walls, contours, and embrasures.

Move Feature can be used for non-functional cusps, occlusal table, and marginal ridges.

4 - Function - Bite/Occlusion

Click **View Bite Registration (x2)**

Activate **View Contacts.**

Use **Contact Refinement** to make adjustments.
Goal: **White, brown, black**

Return to **Freeform Change Tools**.
Deactivate **View Bite Registration**.

5 - Interproximal Contacts

Activate **Hide Model.**

Adjust the contacts:

Smooth Surface - removes material.

Dropper - adds material.

Goal: **Light green/aqua surrounded by dark blue**

6 - Prepare for Milling

Ensure the restoration will mill properly.

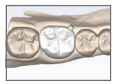
Material Thickness:
Occlusal table 1.5 - 2 mm
Axial walls 1 - 1.5 mm.

Ideal margins are Yellow.

If red/orange verify margin placement with **Move Margin**.

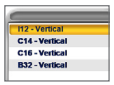
Use **Dropper** as needed to add material.

MILL



Sprue Position

Adjust the sprue away from margins, contacts, and occlusion when needed.



Block Size Selection

Select the block size for the chosen restoration and material.

Block size will only show if the restoration will fit on it.

Mill Sim

Check the internal fit of your restoration before milling.

Look for internal interferences in the intaglio surface of the restoration and use Slice Plane when needed to evaluate.

Overmill

Intaglio View

QUESTIONS? Contact CAD/CAM Support @ (800) 537 6070

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PLANMECA