

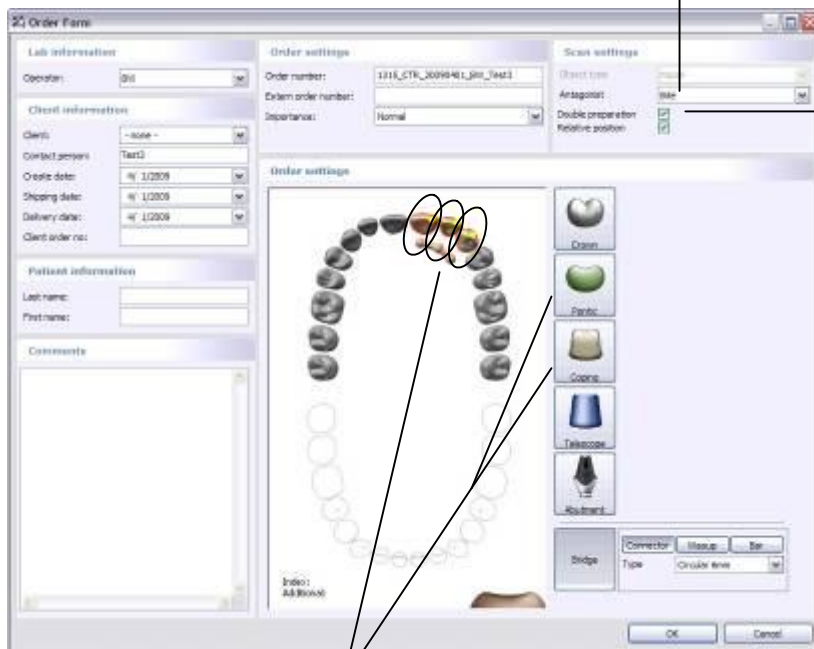
Suntech[®]

“Scanning Abutments with Suntech[®] 3D Scanner”

For use with Suntech[®] Designer Software

Order Form Selection

1 To scan the bite, select **Bite**.



2

Select **Double Preparation**. This selection is often used to scan waxups or the buccal side of a bite.

3

To scan an abutment, select **Coping** for the tooth position of the abutment.
To scan a pontic of a bridge, select **Pontic** for the tooth position.

NOTE:

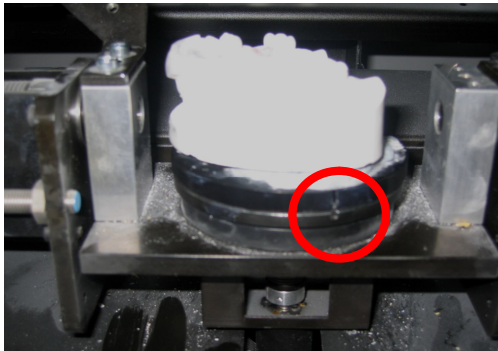
Do **NOT** select **Abutment** to scan an abutment. If **Abutment** is selected, the 3Shape scanning software will use the 3Shape's abutment scanning workflow. Then the resulting scan data can not be imported into SUNTECH Designer.

Scanning the Bite



1

Place the model and bite on the scanning plate.



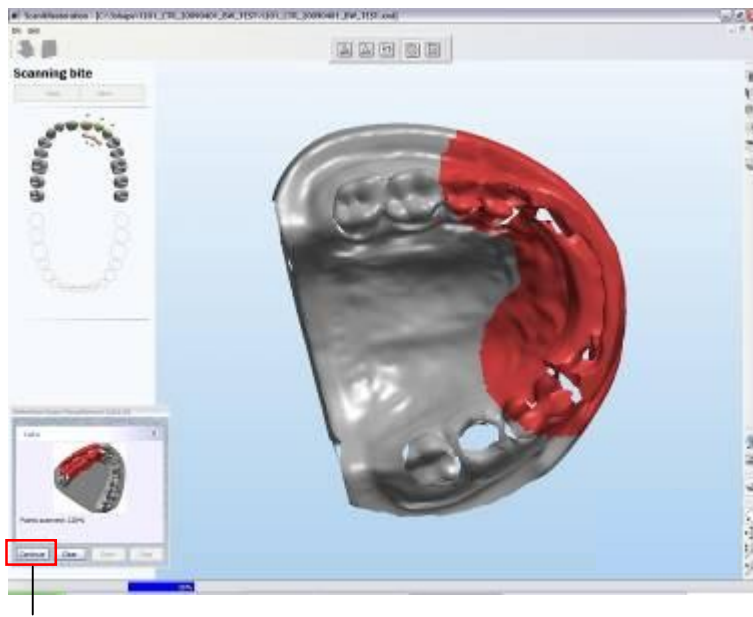
2

Place the plate with the model onto the scanning platform. Make sure that the notch on the plate lines up with the notch on the platform.



3

Click **Next** to start scanning.



4

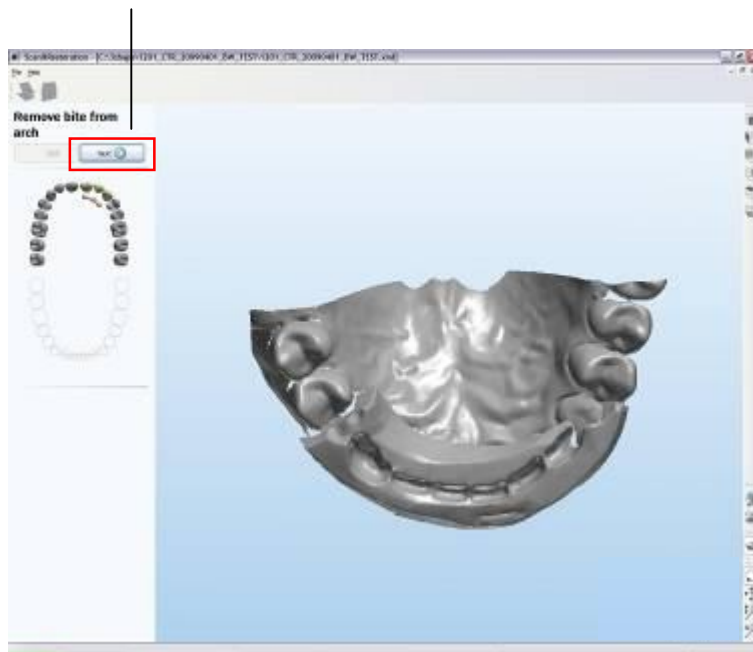
After rough scanning is finished, select the area of the model where scanning is to be completed. The area has to be bigger than the area covered by the bite and the two adjacent teeth.

5

After selecting the area, click the **Continue** button to continue.

6

After the bite scan is finished, click **Next** to continue to the next scan.

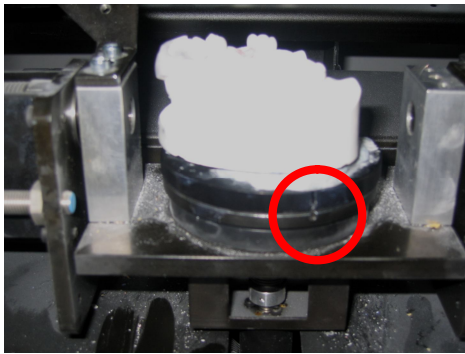


Scanning the Gingiva



1

The scanning procedure will automatically enter the Double Preparation Scan mode. Remove the bite, but do NOT remove the model from the scanning plate. If the model is removed from the plate, the positioning of the model, and therefore the scan, will be incorrect.



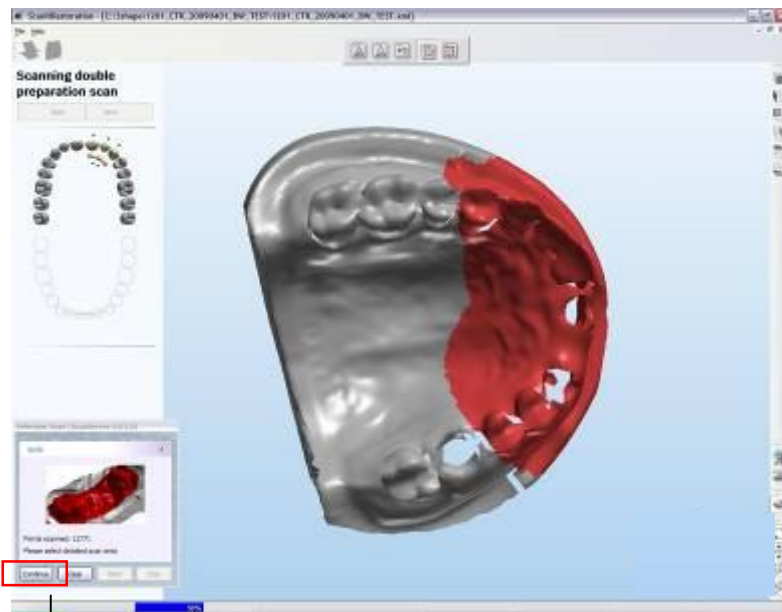
2

Replace the plate with the model back onto the scanning platform. Make sure that the notch on the plate lines up with the notch on the platform.



3

When the model is placed back in the scanner, click **Next** to scan.

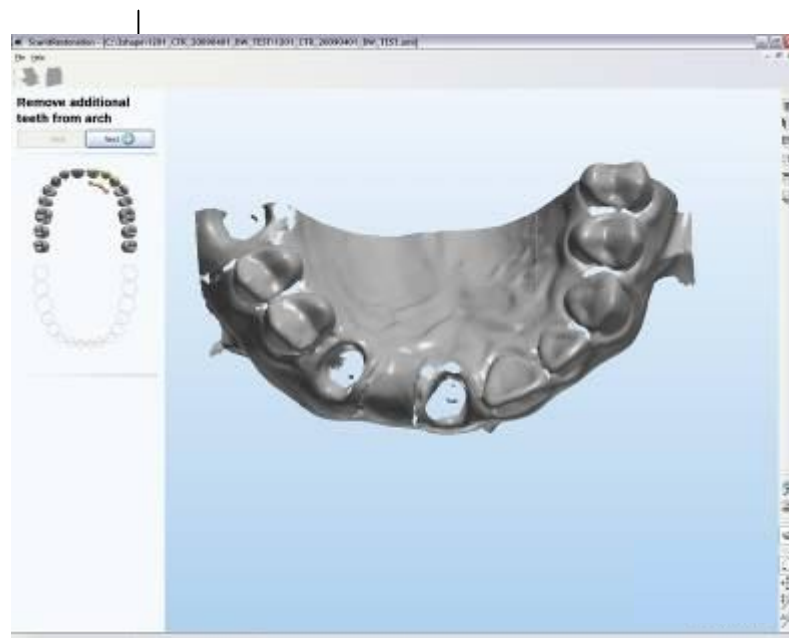


4

After rough scanning is finished, select the area of the model where scanning is to be completed. The area selected has to be approximately the same as the area covered by the bite and greater than the area spanned by the abutment and the two adjacent teeth.

5 After selecting the area, click the **Continue** button to continue.

6 After the scan of the gingiva is finished, click **Next** to continue to the next scan.

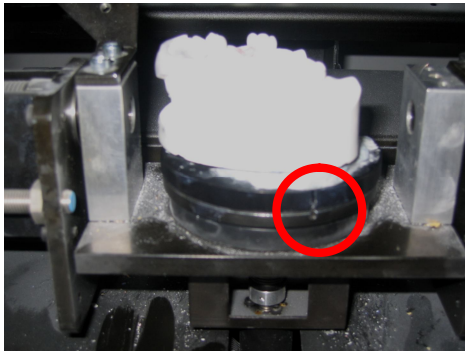


Scanning Abutment Jigs



1

The scanning procedure will automatically enter the Preparation Scan mode. Place the abutment jig in the model. Do NOT remove the model from the scanning plate when placing the jig in the model.



2

Replace the plate with the model back onto the scanning platform. Make sure that the notch on the plate lines up with the notch on the platform.

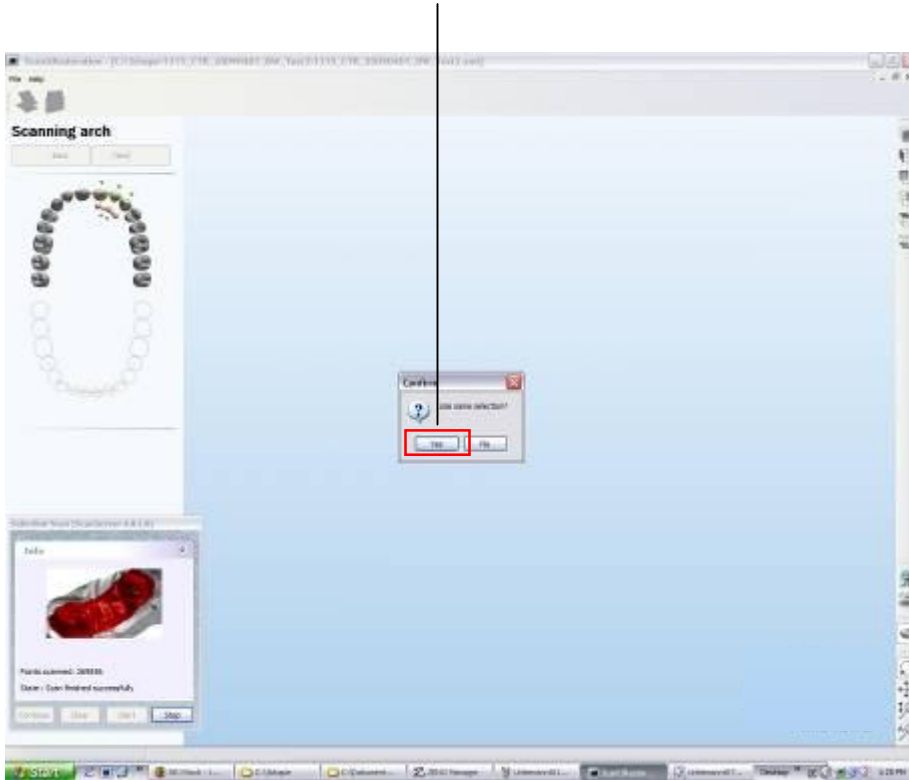


3

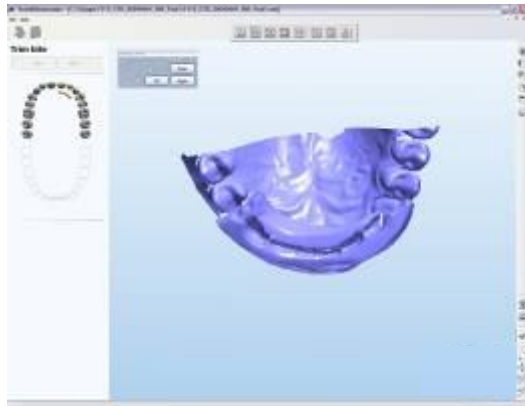
When the model is placed back in the scanner, click **Next** to scan.

4

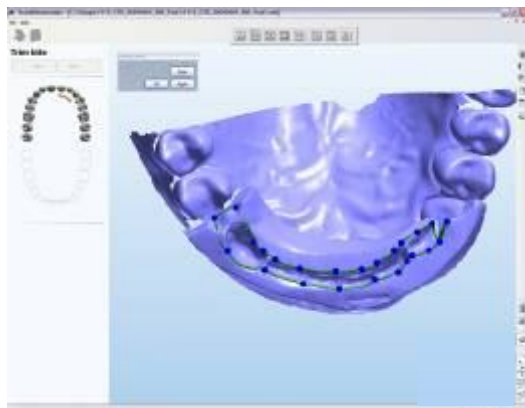
When asked whether to use the same selection as the double preparation scan, click **Yes**.



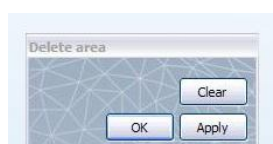
Trimming the Bite



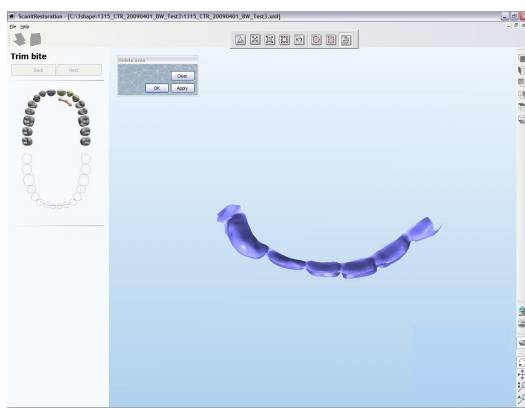
After the jigs are scanned, the scanning procedure enters the **Trim Bite** mode.



1
Select the area of the bite that you want to keep.



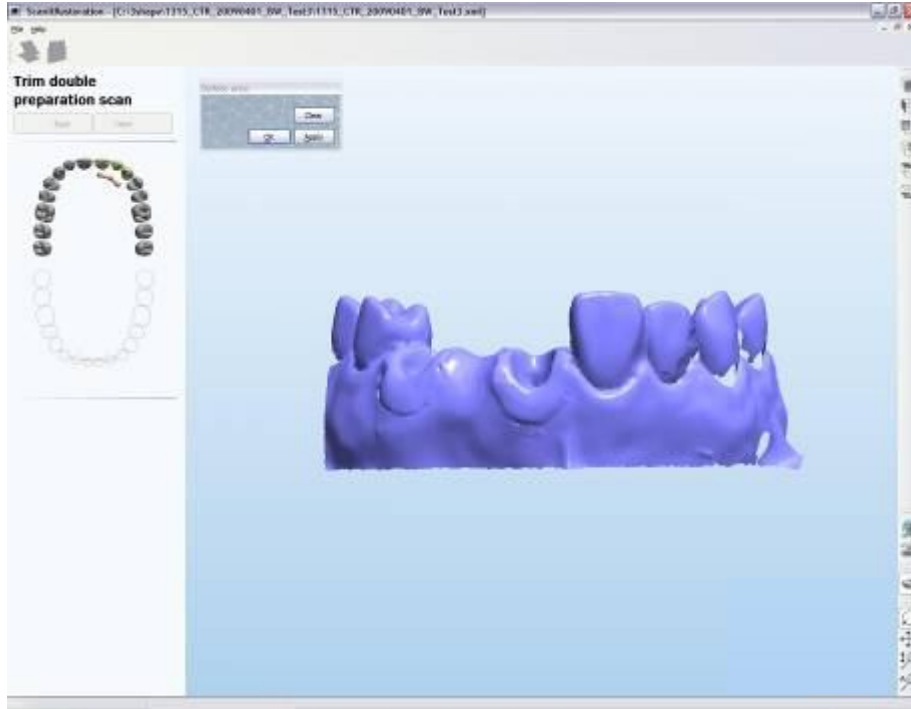
2
Click **Apply** to preview the trim.



3
If the trim is acceptable, click **OK** to continue.

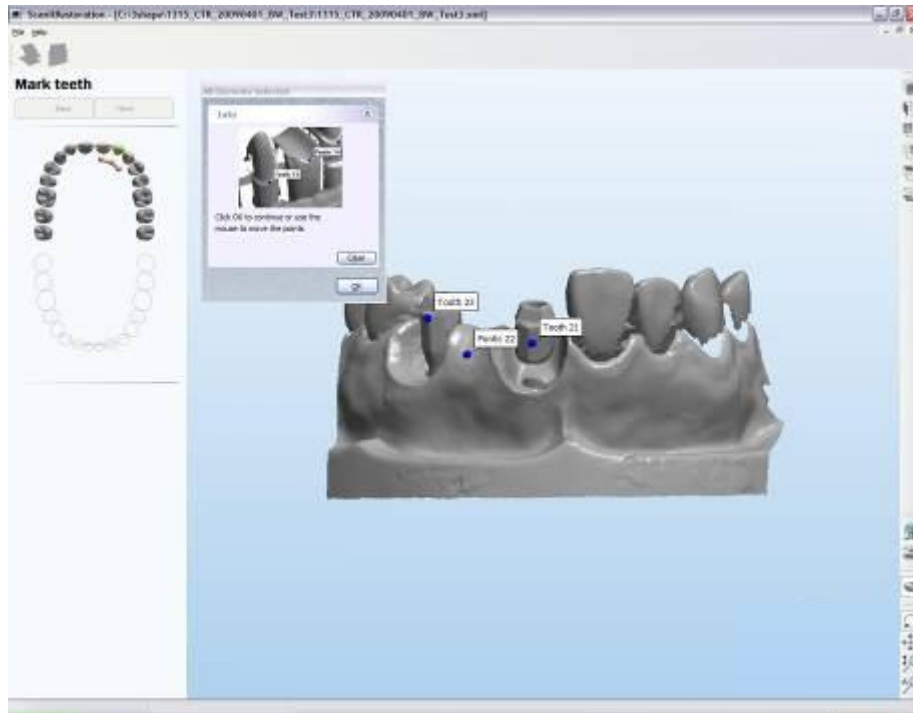
Trimming the Double Preparation Scan

The method for trimming the double preparation scan is the same as trimming bite:
Select the area you want to keep, click **Apply** to preview the trim, and then click **OK**.



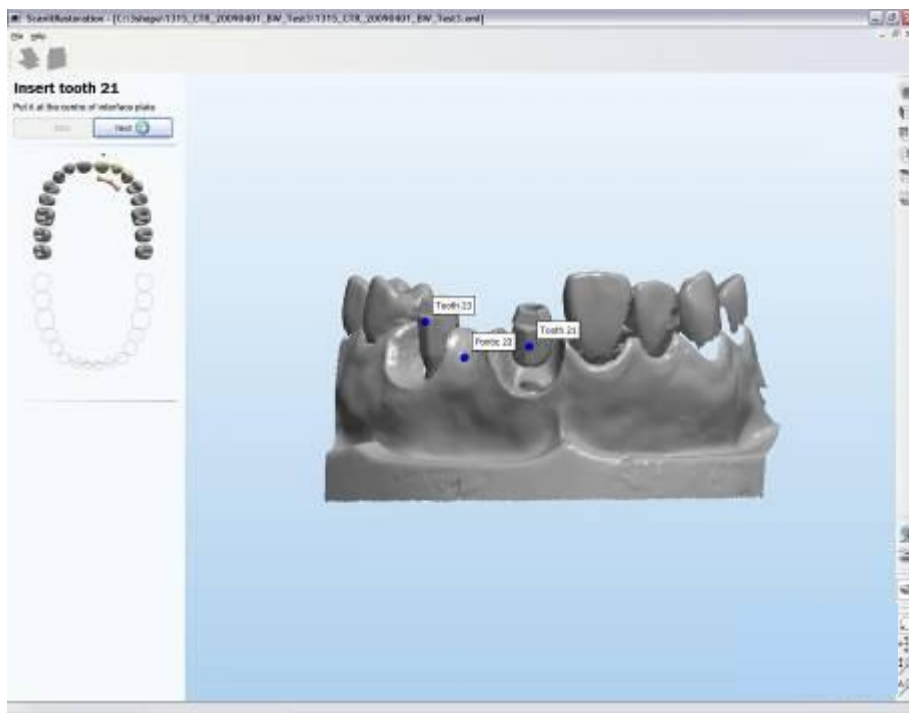
Selecting Tooth Positions

Select the tooth positions.

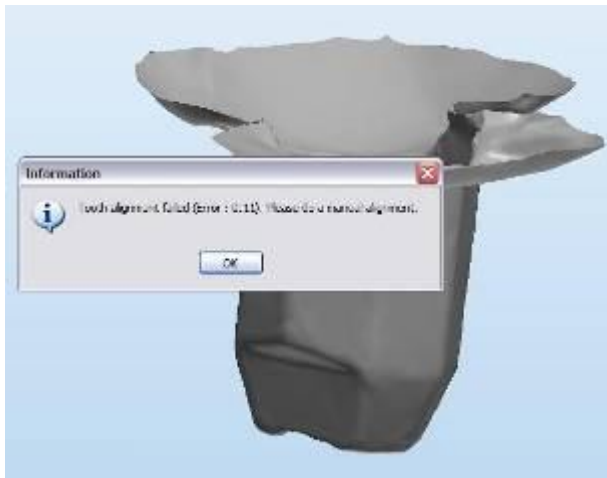


Scanning a Single Jig

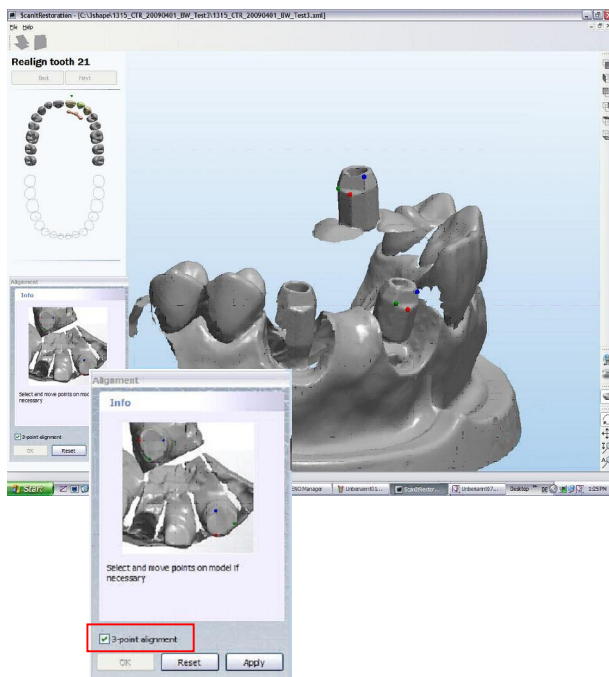
Place the jig in the analog and place them on the scanning plate. It is suggested that you use clay to secure the jig and analog assembly on the plate.



Aligning a Single Jig

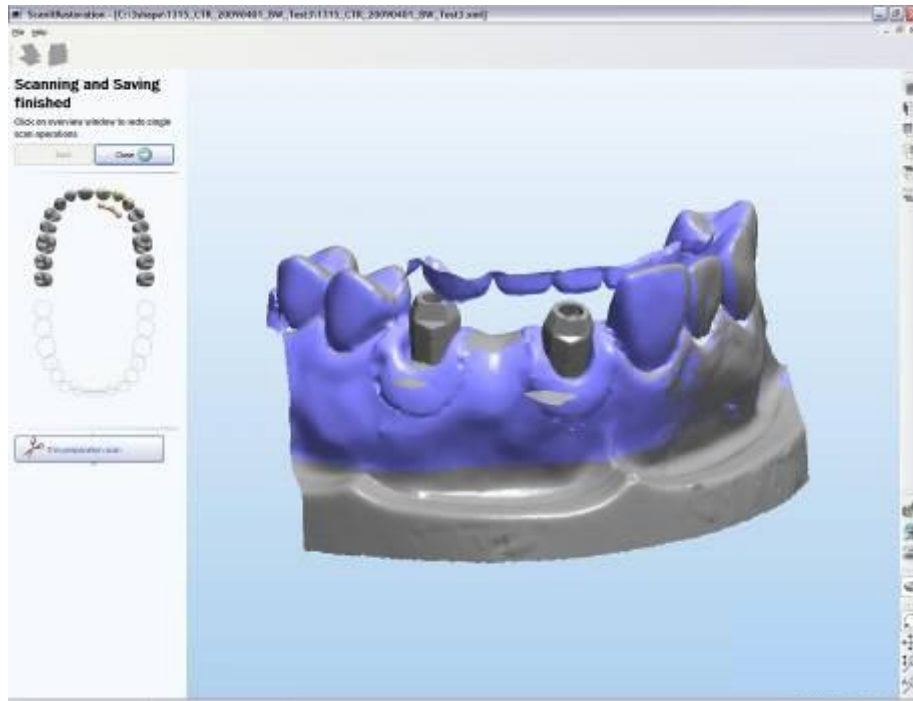


After scanning the jig, there will be a message box indicating alignment failure and requesting manual alignment. Click OK.



Align all the single jigs in the correct sequence. Select the **3-point alignment** checkbox. Then select corresponding points. When finished, click **Apply**.

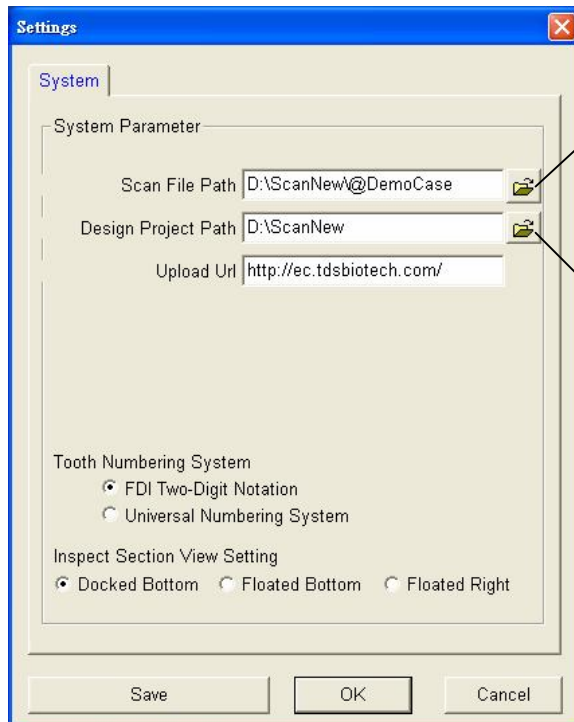
Finished Scan



Importing the Scan Data into SUNTECH Designer

Setting Up Folders in SUNTECH Designer

In SUNTECH Designer, click **Assist** in the menu bar, and then select **System Settings...**

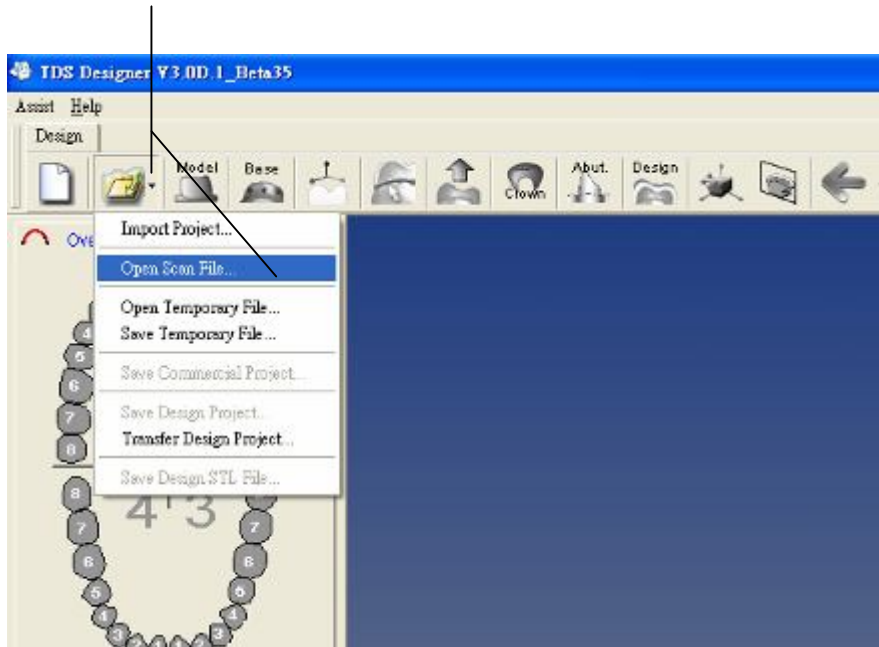


Click the folder icon to change the **Scan File Path** to the 3Shape folder. The **Scan File Path** field shows the folder in which the scan data is saved.

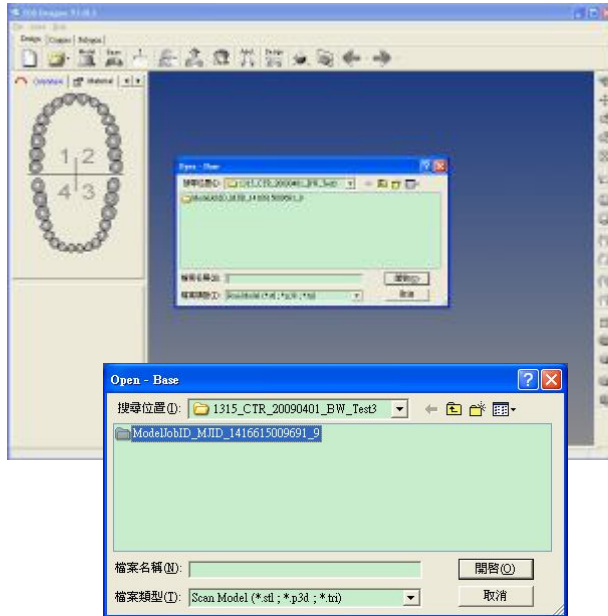
If there is no D drive on your computer, change the drive of the **Design Project Path** to the C drive by clicking the folder icon. The **Design Project Path** field shows the folder in which the design files are saved

Opening the Scan File

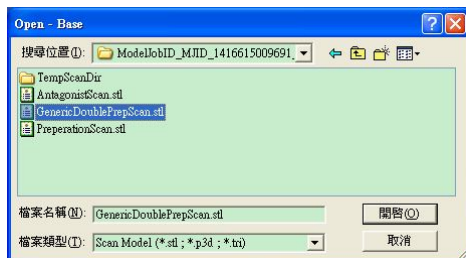
Click the folder icon and select **Open Scan File...**



Opening the Base

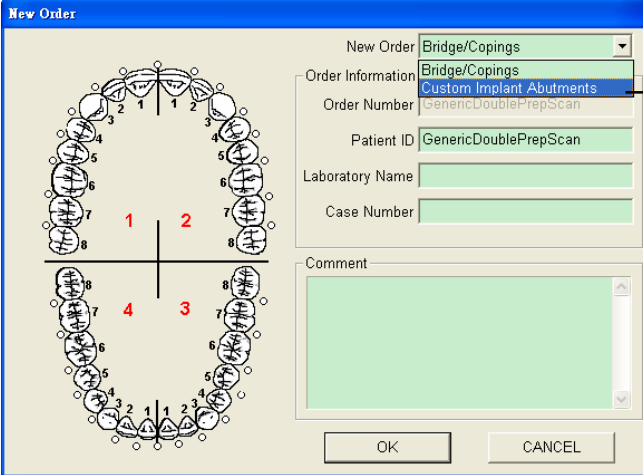


Browse to the folder containing the STL file of your scan data.



Select the gingival STL file and click **Open**.

Entering the Order Form Information



New Order

New Order: Bridge/Copings

Order Information: Bridge/Copings
Custom Implant Abutments

Order Number: GenericDoublePrepScan

Patient ID: GenericDoublePrepScan

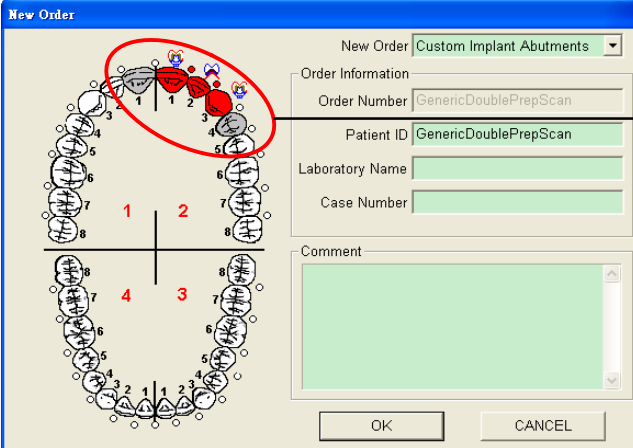
Laboratory Name:

Case Number:

Comment:

OK CANCEL

Select Custom
Implant Abutment.



New Order

New Order: Custom Implant Abutments

Order Information: GenericDoublePrepScan

Order Number: GenericDoublePrepScan

Patient ID: GenericDoublePrepScan

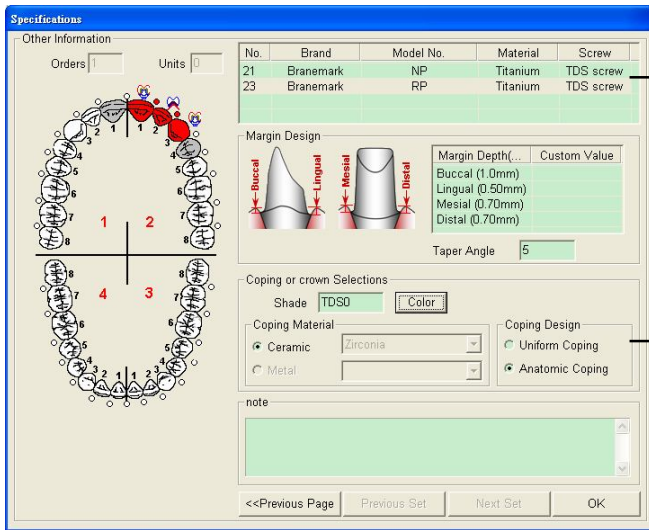
Laboratory Name:

Case Number:

Comment:

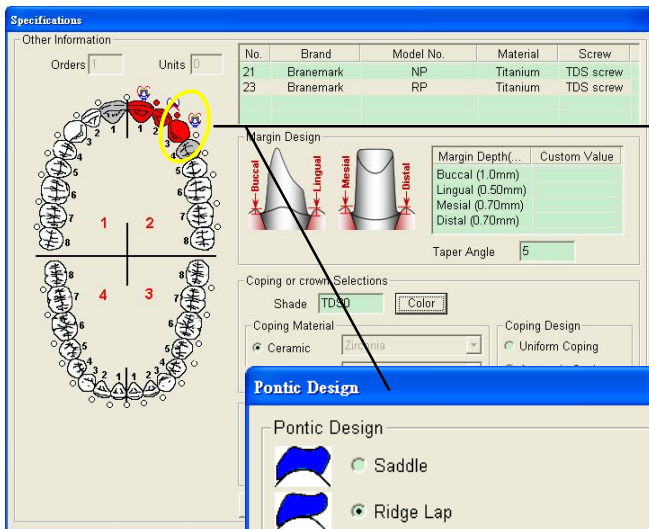
OK CANCEL

Define the tooth position
and type of restoration.
Adjacent teeth should
also be selected.

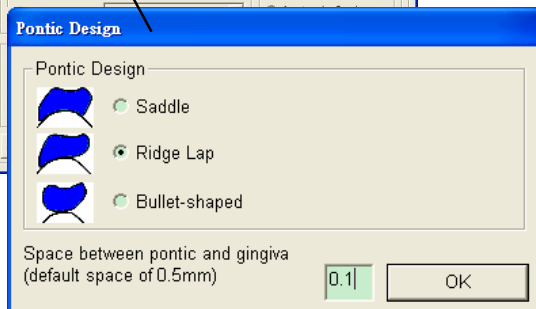


Select the abutment brand and model.

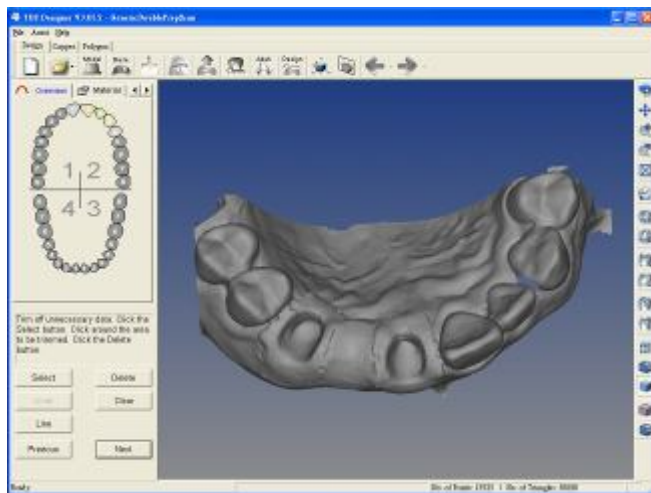
If you are designing 2-in-1 or 3-in-1, you will need to specify information for the coping.



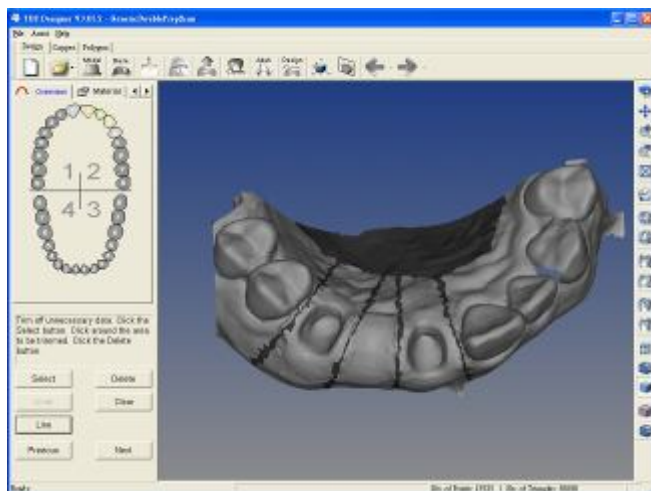
For bridges with pontics, click the pontic tooth icon and select the pontic type and design from the dialog box.



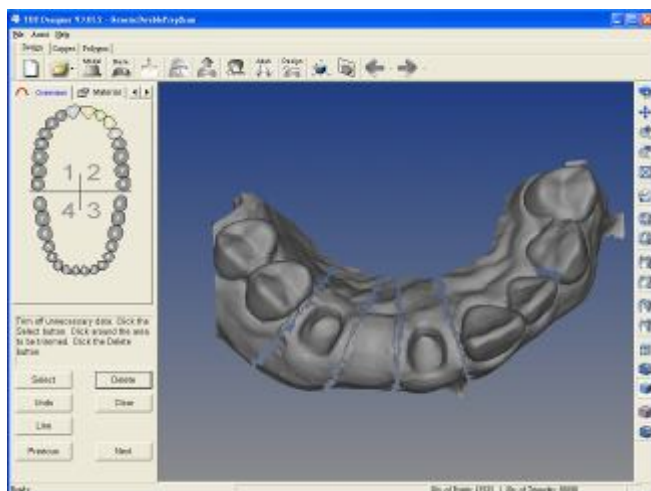
Processing the Scan Data



Scan data imported

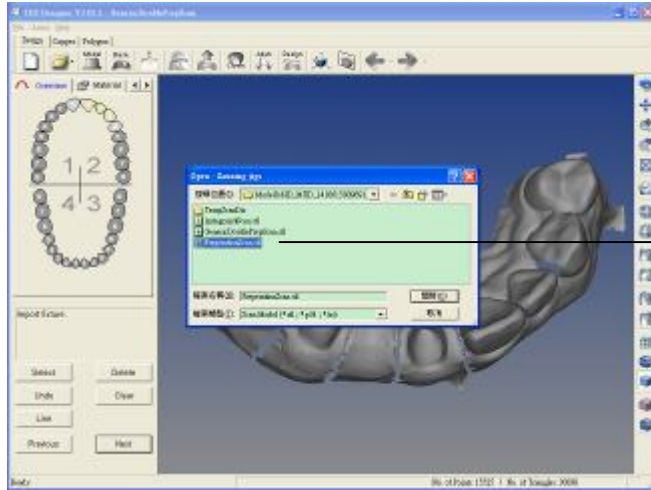


Trim off unnecessary data.



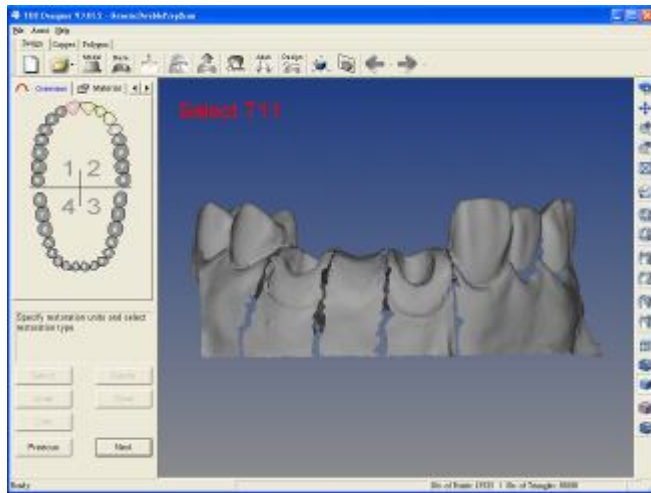
Unnecessary data trimmed off.

Importing the Scan Data of Jigs

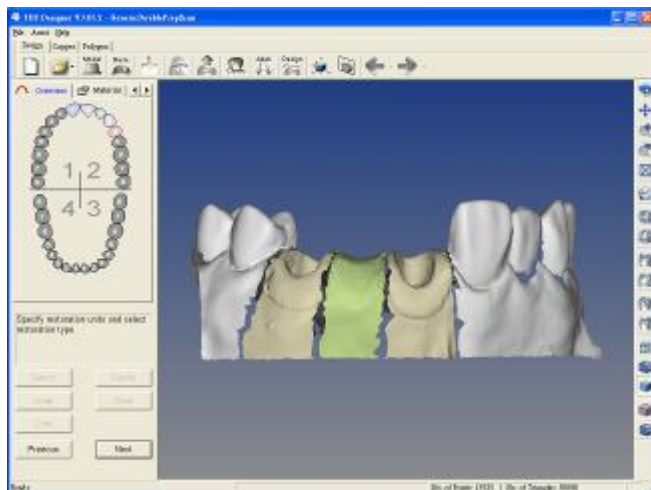


Import the jig scan data.

Selecting the Tooth Positions

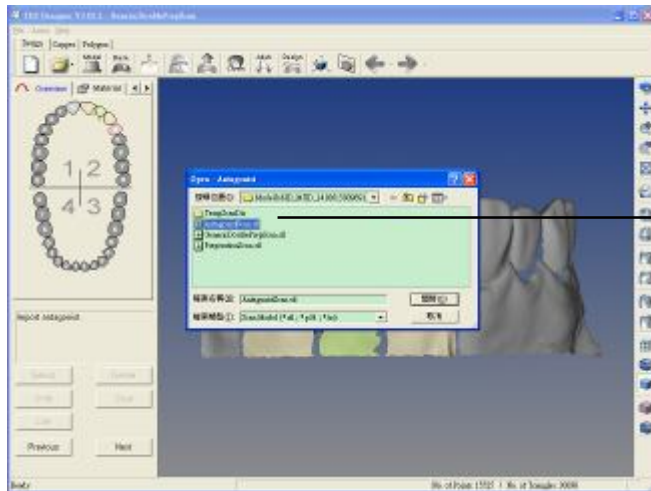


Click on the tooth specified.

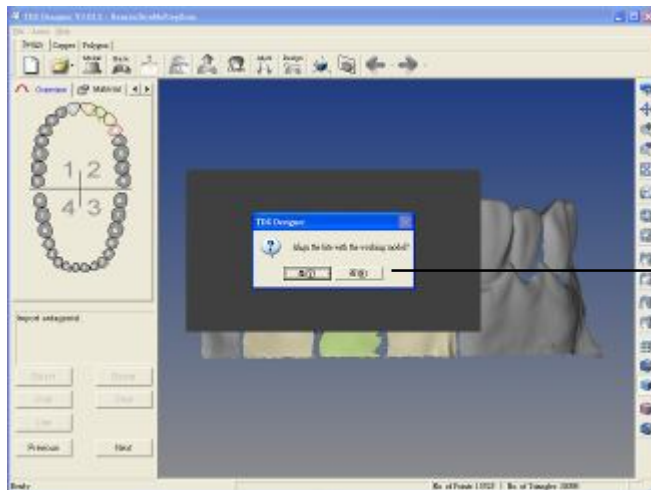


Colored model shows tooth positions have been specified.

Importing the Bite Scan Data

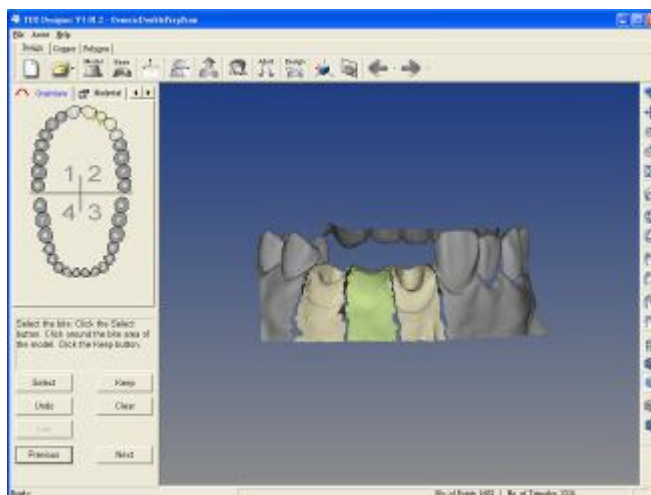


Select and open the bite scan STL file.



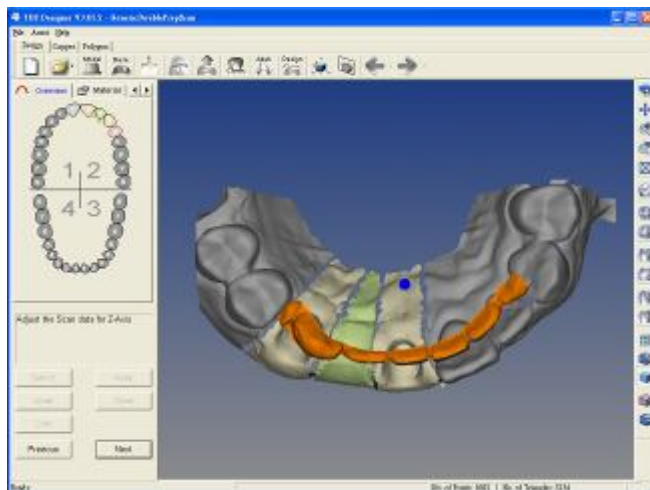
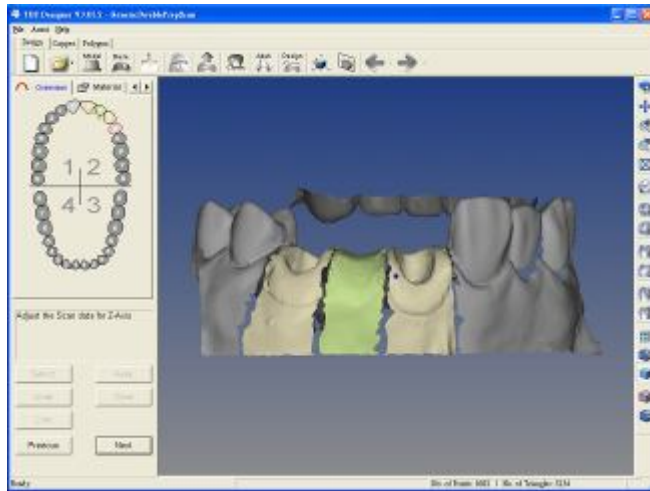
Click No when asked to align the bite with the working model.

Note: During scanning with 3Shape scanner, the bite is aligned and trimmed. Alignment at this time will result in incorrect bite positioning.



Bite imported.

Adjusting the Direction of the Bite



Use the middle mouse button to move the bite surface so that it is perpendicular to the computer screen, as shown on the left.

Scan Data Imported

Continue with the design of the abutment.

