

Model Creation with exocad

Prep Files

1. Virtually Oriented Upper and Lower Scan(s).



FIGURE 17

Model Creation

1. Select Tools > Mesh Alignment
2. Choose a Model Type that matches the destination printer.
3. Set the Model Height to 38mm.
4. Click Reset Alignment
5. Move the model until the Upper Jaw Model Height = 22.00mm. Click Ok

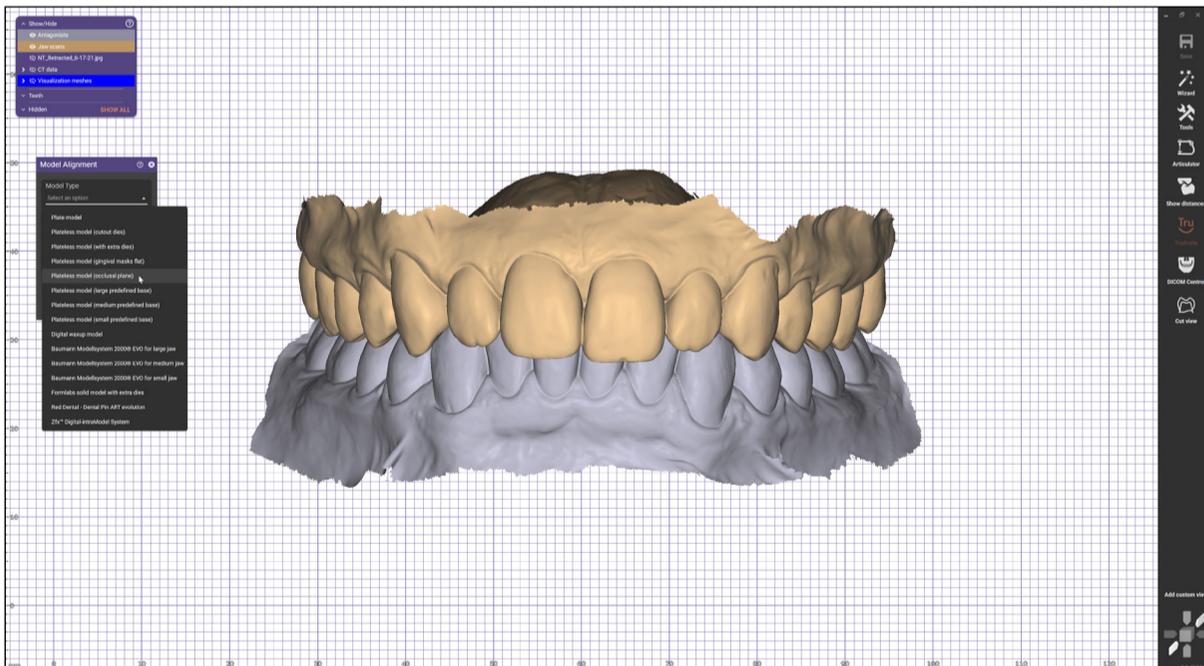


FIGURE 18

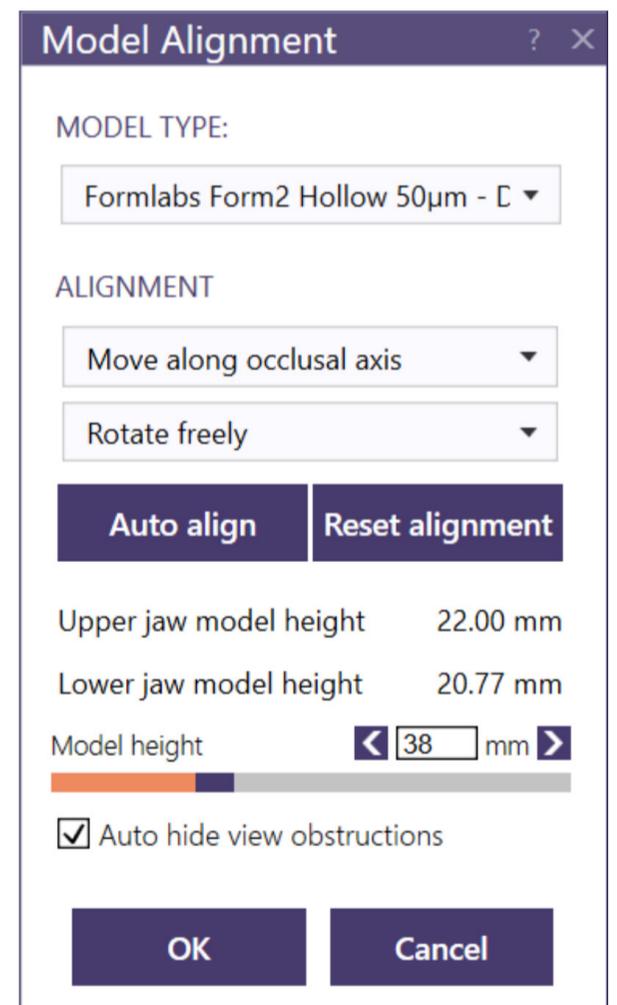


FIGURE 19

6. With the models still selected, click Plateless Model Design, then use the default or preferred settings and process both arches.
7. Continue to the model attachments or export the models for use in another application such as meshmixer.

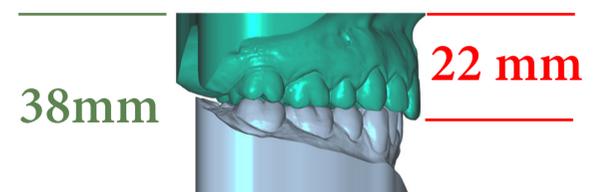


FIGURE 20

Model Attachment with exocad

Prep Files

1. Virtually Mounted Upper and Lower Scan(s).
2. exocad Model Builder Module.
3. Kois Attachments for exocad model builder.
<https://www.koiscenter.com/wp-content/uploads/2023/02/Kois-Center-Transfer-Adapter-Attachment-2023.zip>

Model Attachment with exocad Model Builder

1. Select Tools > Model Attachment
2. Choose the Kois Attachment and click on the back of the upper model.
3. The attachments will attach in the correct direction.
4. Select the front-view and move the attachment left/right until the center notch lines up with the midline of the patient.
5. Change to the side-view and move the model so the incisal edge is at the 71mm gridline.
6. Next, pull the attachment back until the back edge is at the 0mm gridline.
7. Click Ok to process the attachments.
8. Save the files out and print.

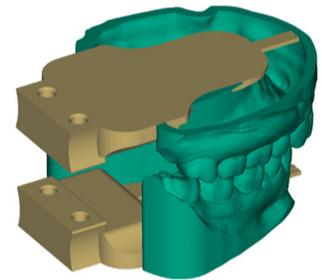


FIGURE 21 — Click back of models to initiate attachment. Attachment automatically sets in correct direction.

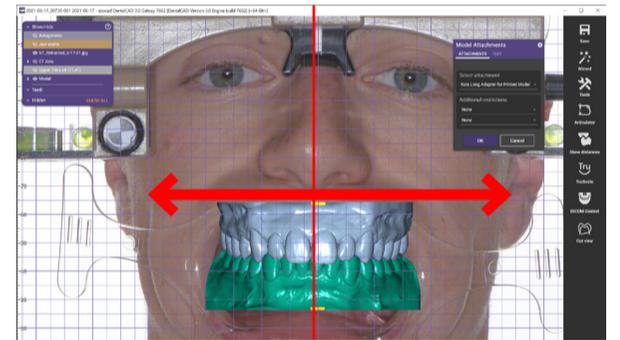
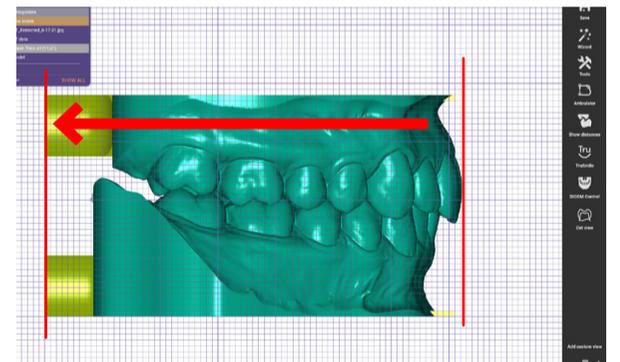


FIGURE 22 — Lining up the attachment with the facial midline.



0mm

71mm

FIGURE 23 — Setting the model/attachment length.



FIGURE 24 — Printed Upper Model on Platform



FIGURE 25 — Printed Models