**Analog Glue Gap Modification Tutorial**

**Scope:**

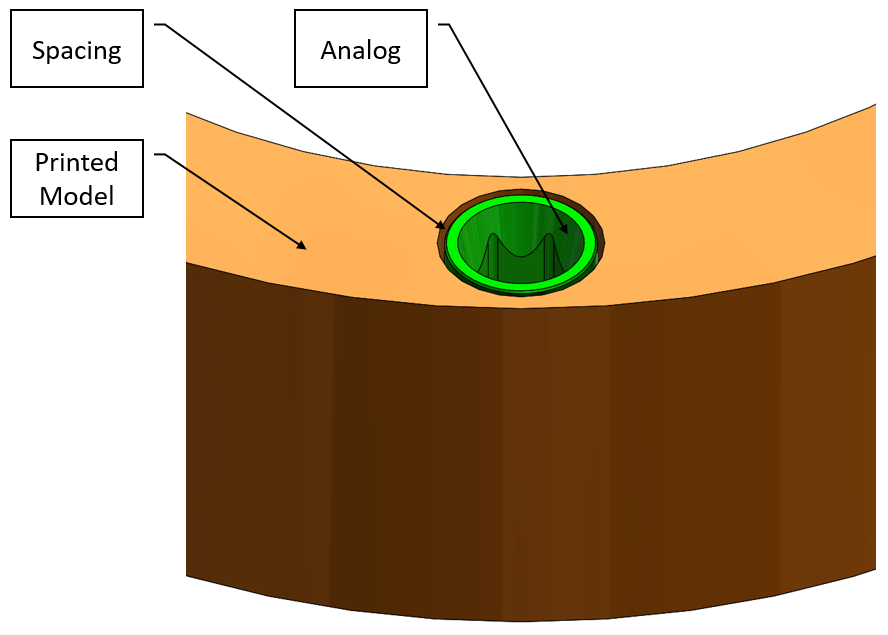
This tutorial explains how to modify the socket size for printed model analogs when using CadCam EXOCAD systems in case the analog does not fit into the printed model.

**Background:**

* In Exocad systems, the user cannot control the analog socket size for the printed model.
* Due to the difference between 3D printing technologies and printing process, the analog’s socket dimensions in the printed model are likely to vary and may cause miss fitting of the analog into the printed model, in which case a “fine tuning” process is required.
* The “fine tuning” process is performed in the “trial and error” method as shown in this document.

**Technical information:**

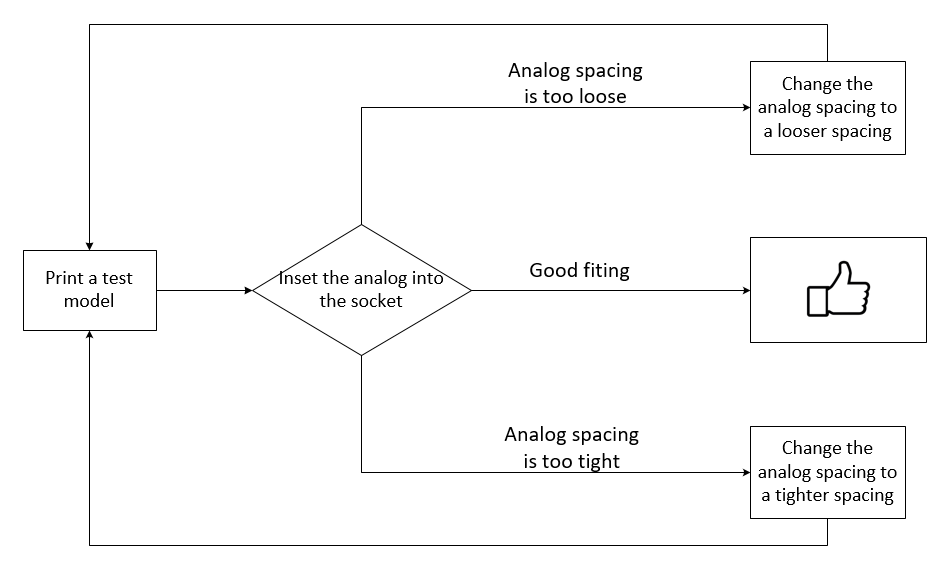
* The socket size defines the spacing between the analog and the printed model.
  + if the spacing is too tight – the analog will not fit in
  + if the spacing is too loose – the analog sitting will not be accurate.



* + The default spacing value set by ABT is 0.1 mm.
  + In this manual Alpha BioTec offers the following spacing values for “fine tuning”:

0.03mm / 0.05mm / 0.075mm / 0.1mm / 0.15mm / 0.2mm / 0.25mm

**Trial & Error Method flowchart**

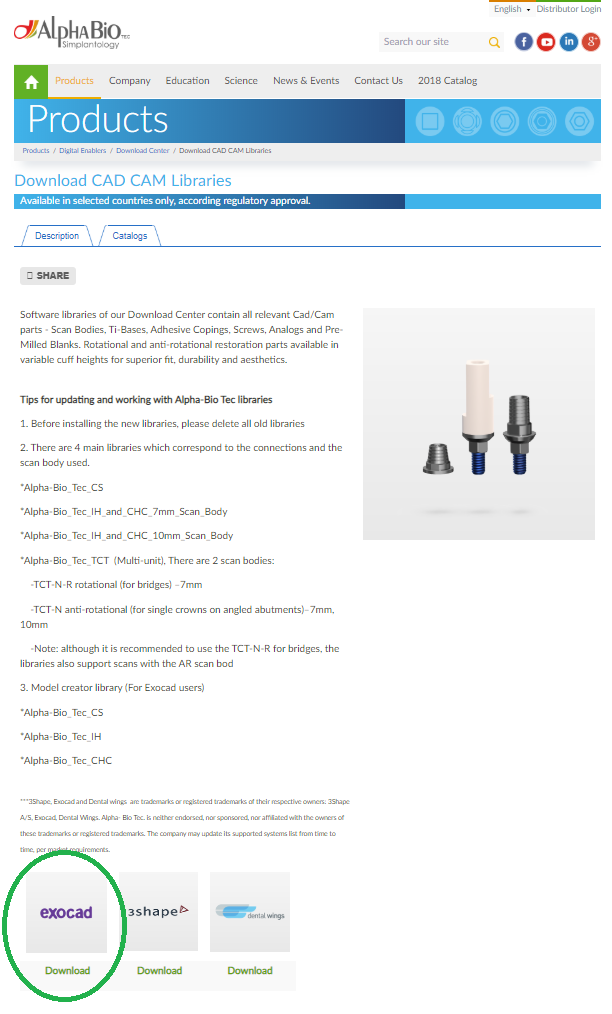


**Socket size modification Step by step**

Step1 – Library download

Download CadCam Exocad library’s latest version from Alpha Bio Tec official website:

<http://alpha-bio.net/global/products/digital-solutions/download-center/cad-cam-libraries-download/>



Step2 – Installing the library

* 1. Extract the *RAR file*
  2. Place Implant folders into the Implant folder in the EXOCAD’s installation folder . **Make sure to delete old folders before placing the new ones**

Folder is usually located at:

*Installation Folder\Exocad\DentalCADApp\library\implant\*

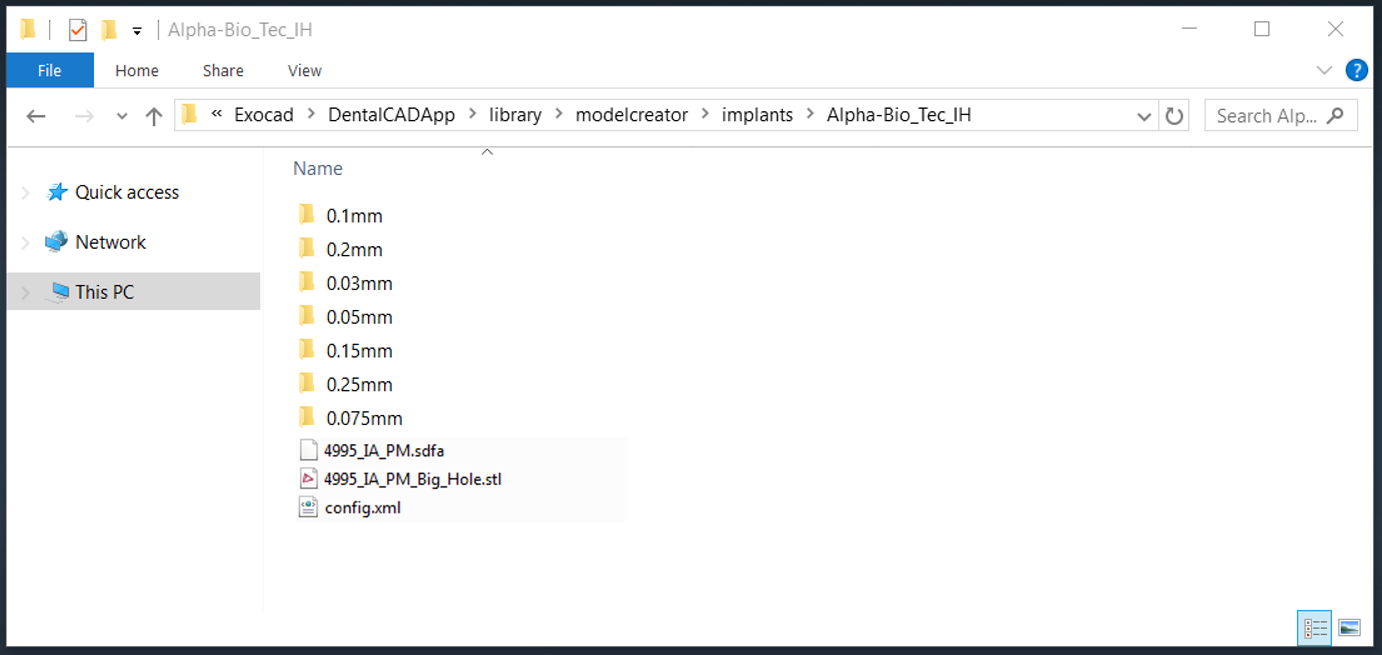
* 1. Open the model creator folder and place its internal folders into the Model Creator folder in the EXOCAD’s installation folder. **Make sure to delete old folders before placing the new ones**

Folder is usually located at:

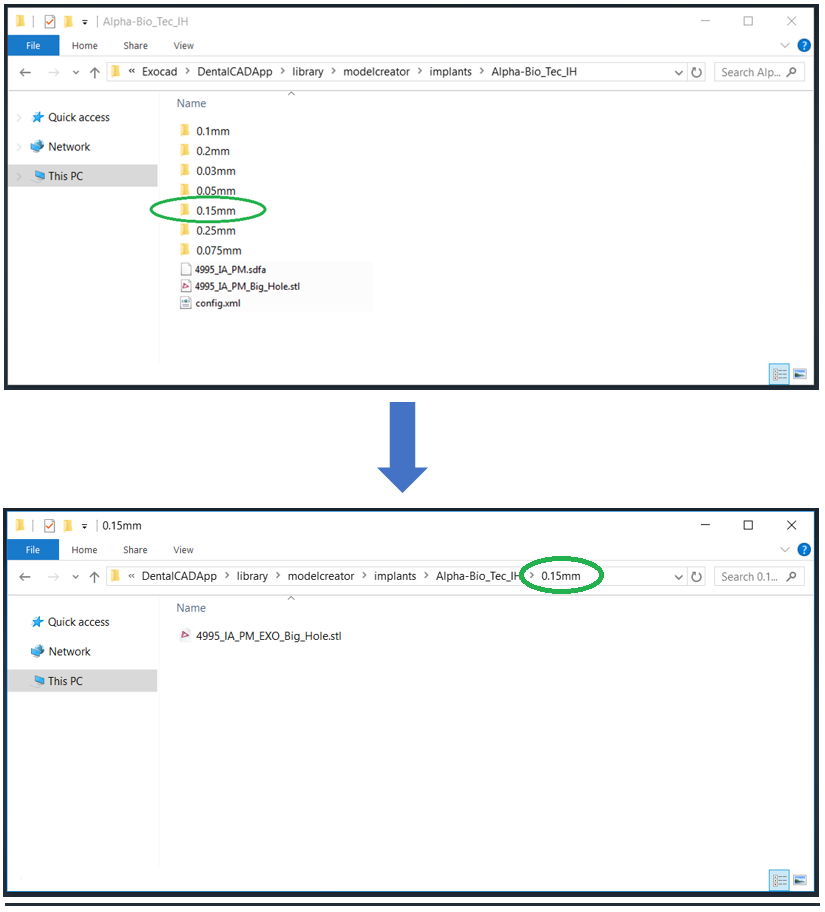
*Installation Folder\Exocad\DentalCADApp\library\modelcreator\implants\*

Example:

If the Internal Hex Model Creator library has been downloaded, the final path should be:  
*(Installation Folder)\Exocad\DentalCADApp\library\modelcreator\implants\Alpha-Bio\_Tec\_IH*  
The content of the updated “Alpha-Bio\_Tec\_IH” library should be:

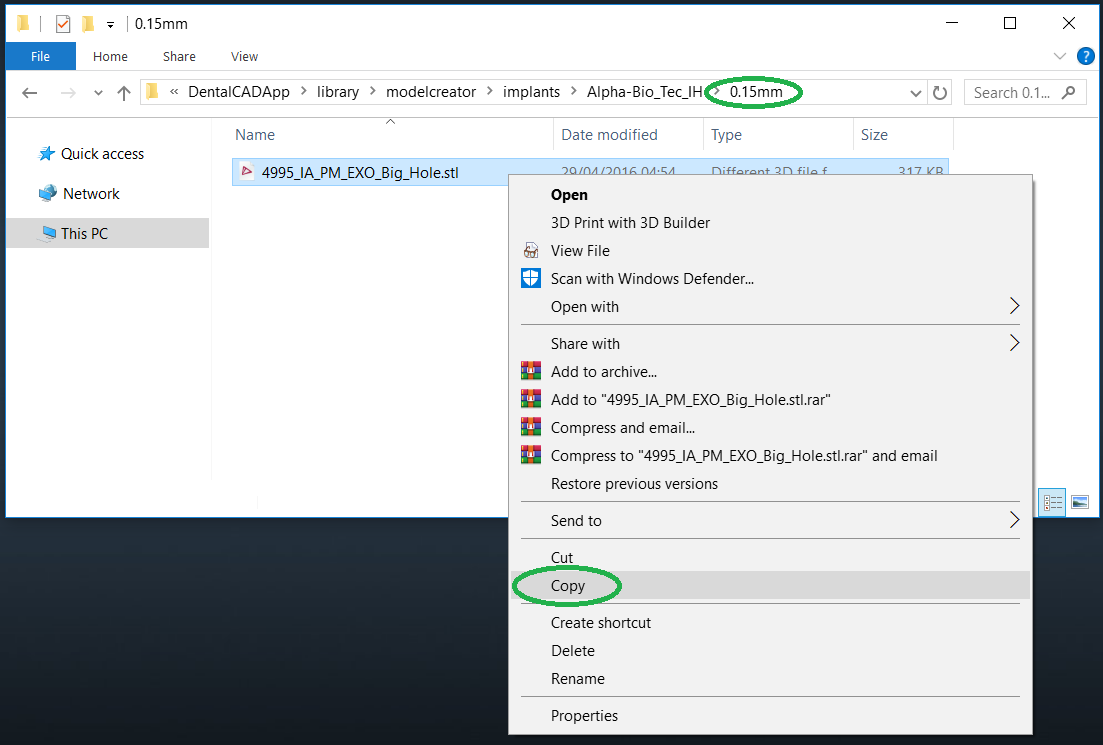


Step 3 – Choosing the preferred spacing size

Select the desired spacing value and open the folder  
 

Step 4 – Copying the chosen spacing into the model creator library

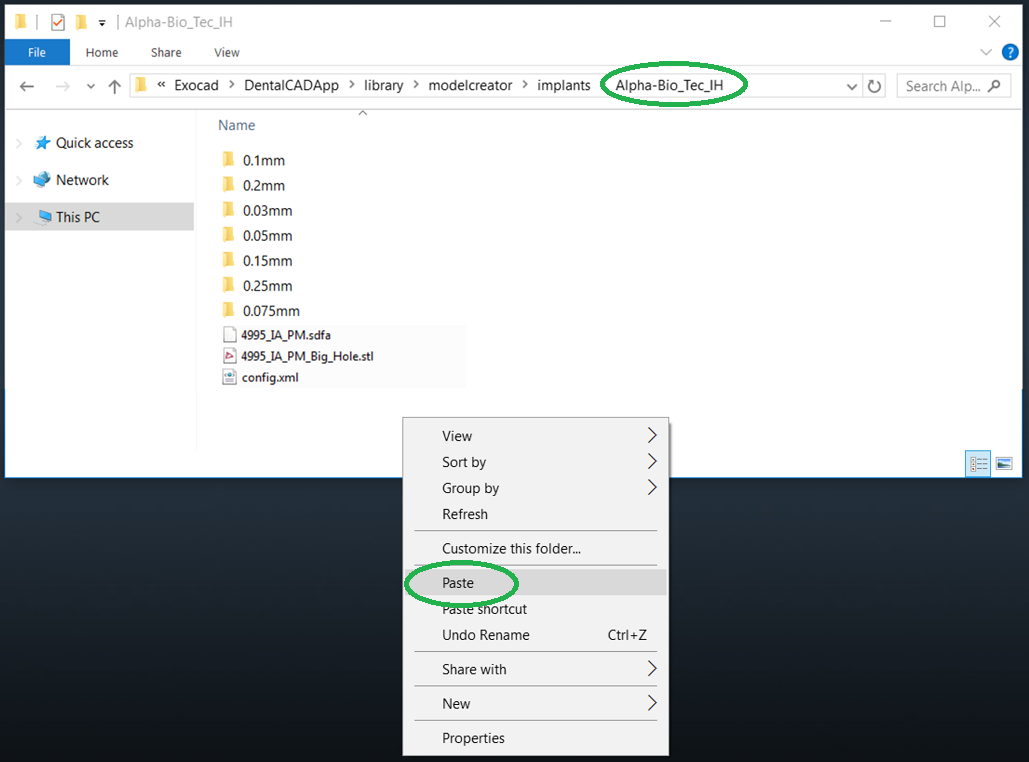
Copy the desired spacing STL file.

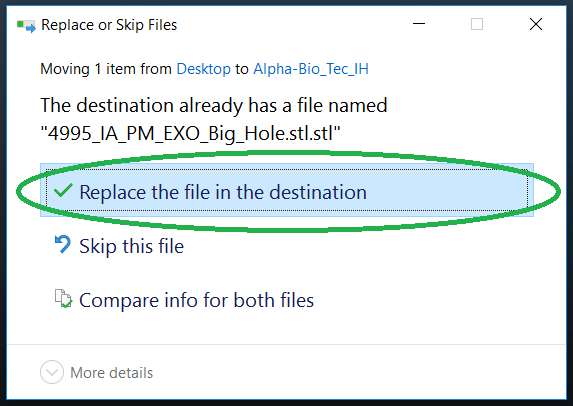


Step 5 – Paste the preferred STL file

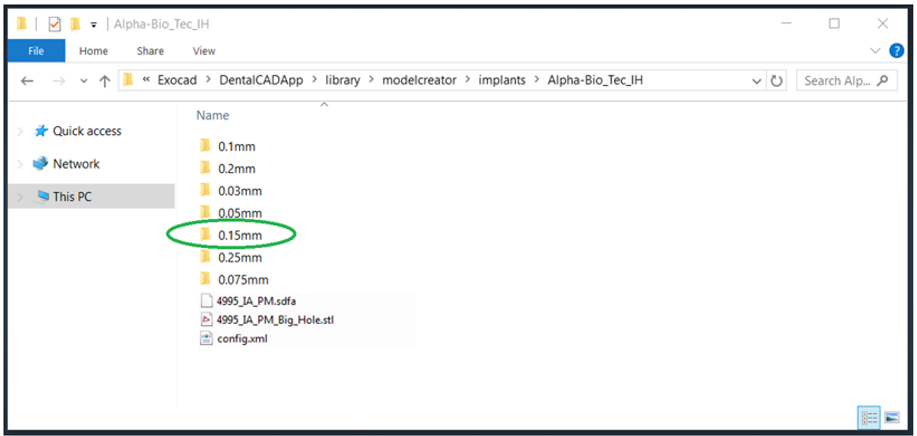
Paste the STL file into Alpha-Bio\_Tec\_IH library   
*(Installation Folder)\Exocad\DentalCADApp\library\modelcreator\implants\Alpha-Bio\_Tec\_IH*

Select “Replace the file in the destination” – please note that different operating system will give different notification.





**Note:** In General, the chosen spacing STL file should be copied from inside the folder of the chosen spacing and placed outside of the folder.



**This example relates to the Internal Hex (IH) platform with 0.15mm spacing, but the same process should be performed for all other platforms and spacings.**