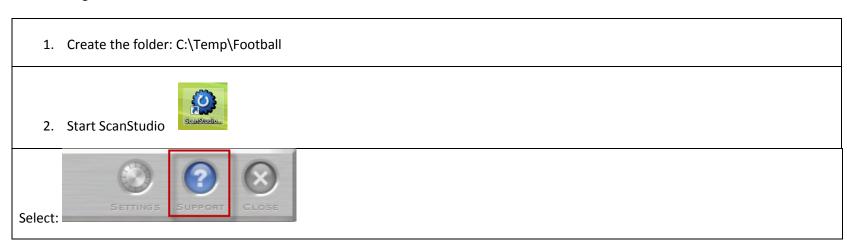
Scanning the football

Jcs - 9/28/2012

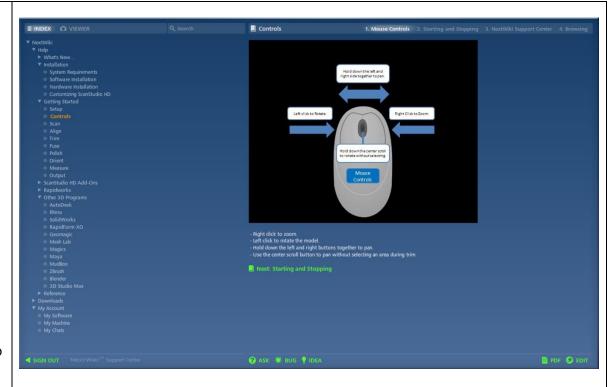
Reference: NextEngine User's Guide



- 3. Study the material, especially Getting Started
 - a. Setup
 - b. Controls
 - c. Scan
 - d. Align
 - e. Trim
 - f. Fuse
 - g. Polish
 - h. Orient
 - i. Measure
 - . Output

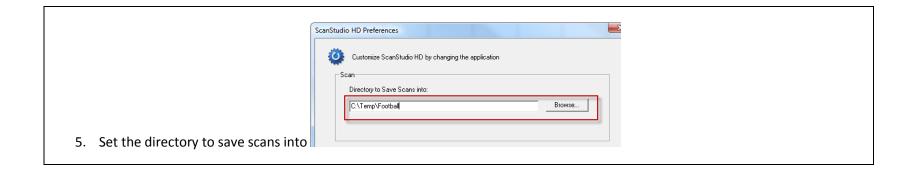
Note

- these steps will be used to do the intial scan, refer to the material presented for clarification and additional information.
- Start by selecting controls to see how to use the mouse.
- Leave this window open for study / referral



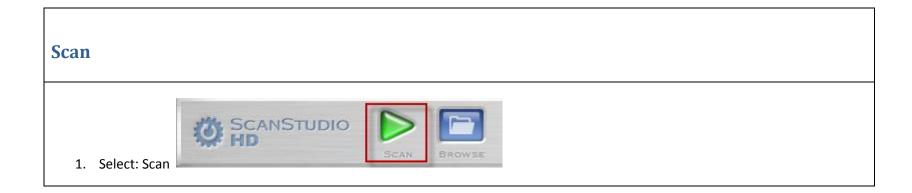


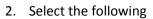
4. Select: Edit | Preferences



Setup

1. Set up Scanner and the Target object (Football). Center the football over the turntable, and center it in the screen (See below)





a. Positioning: 360

b. Divisions: 7

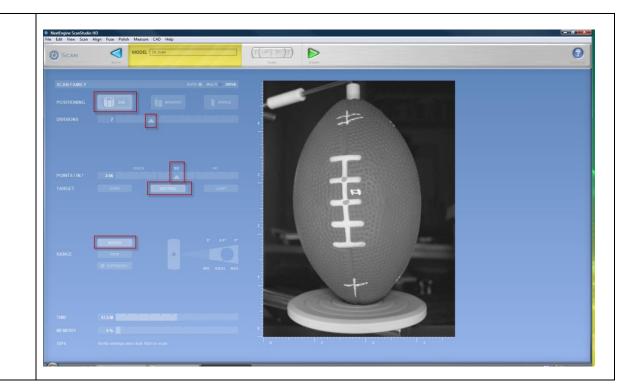
c. Points / in^3: 2.5k

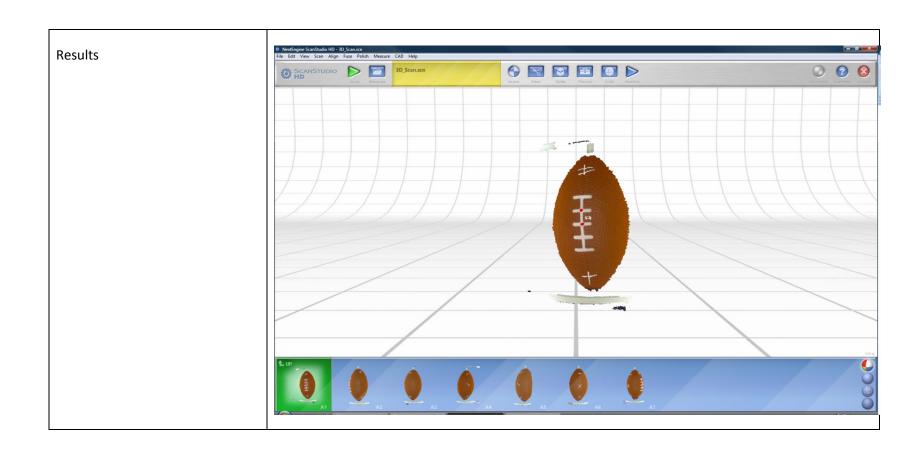
d. Target: Neutral

e. Range: Macro



3. Select: Start



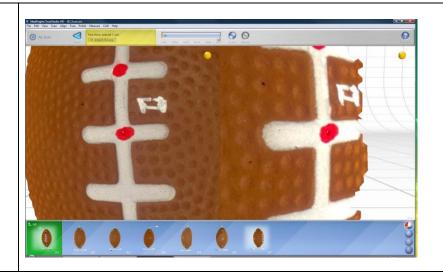


Align (Note: This step may not be required in the current version of the software)



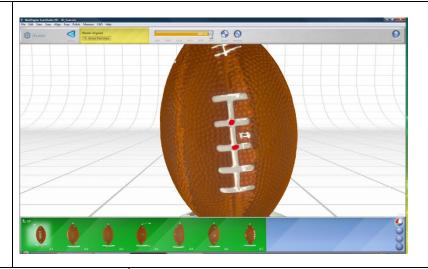
1. Select: Align

2. Drag the red dot to a common point.



3. Select: Align

Results



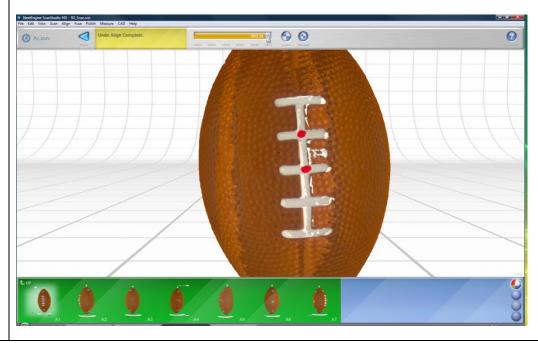
Notes:

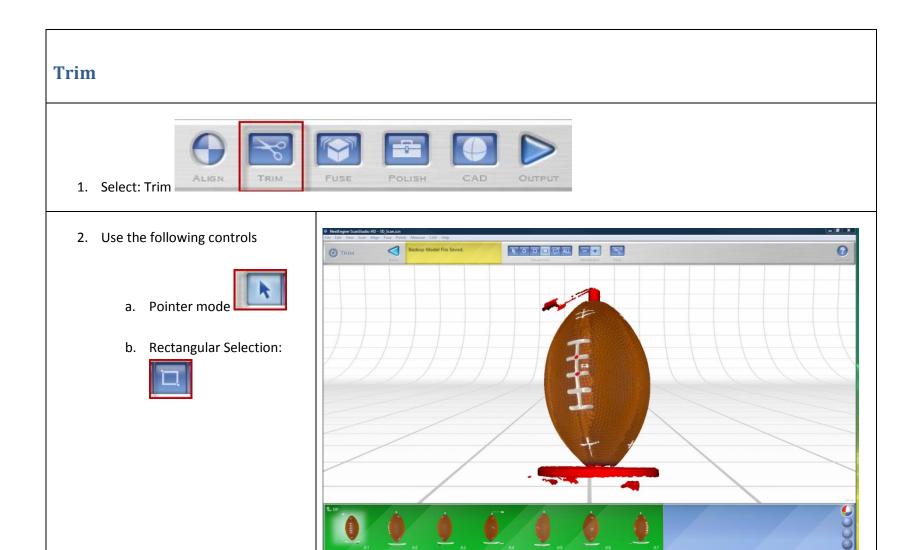
If the results look something like this try the following:

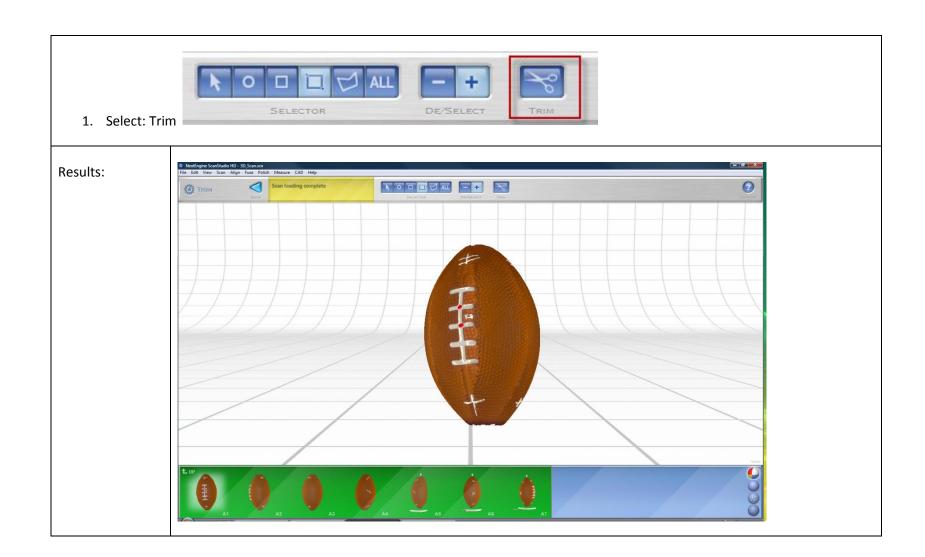
1. Select: Refine



2. Repeat the alignment process. Select a different refernce point







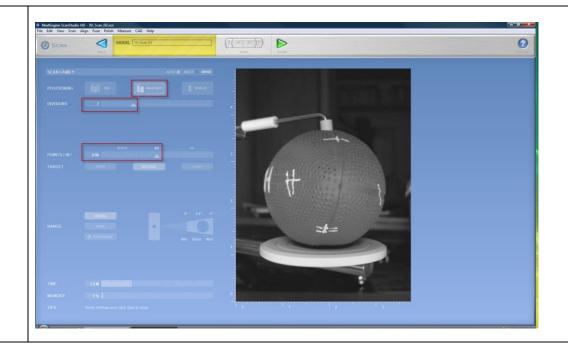
Scan

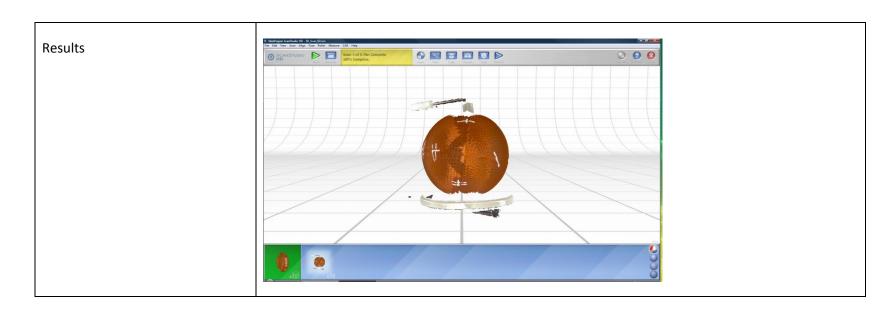


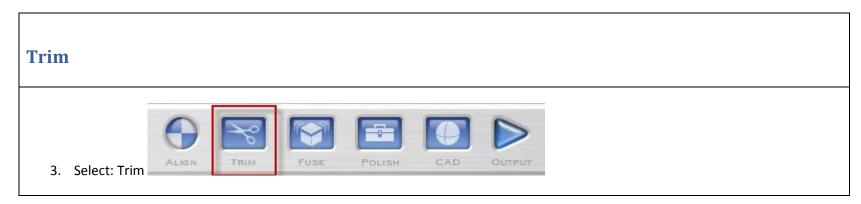
- 1. Select: Scan
- 2. Select the following
 - a. Positioning: Bracket
 - b. Divisions: 7
 - c. Points / in^3: 2.5k
 - d. Target: Neutral
 - e. Range: Macro

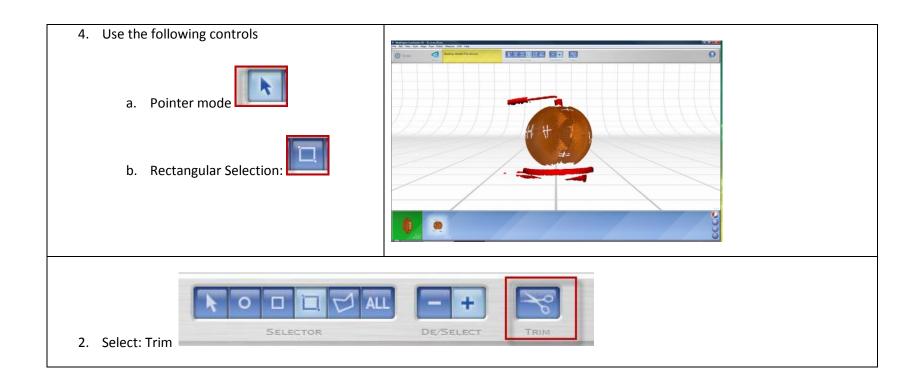


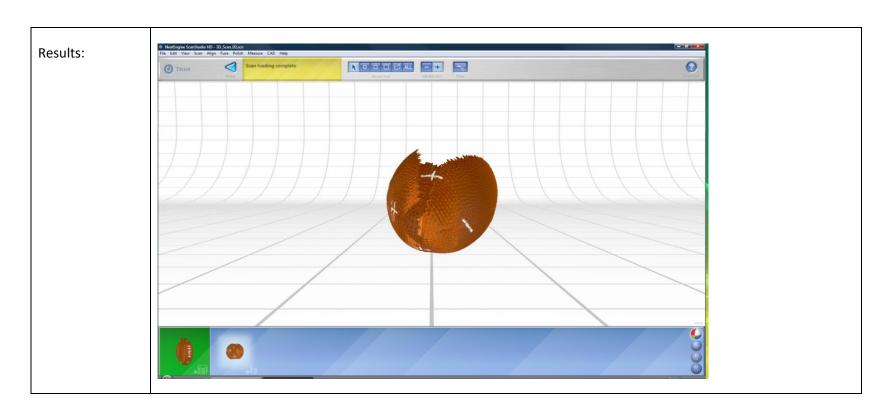
3. Select: Start



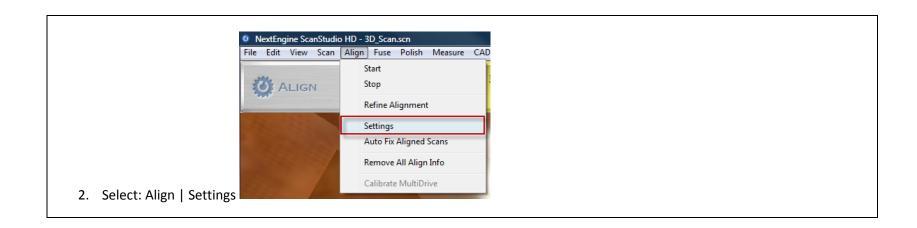


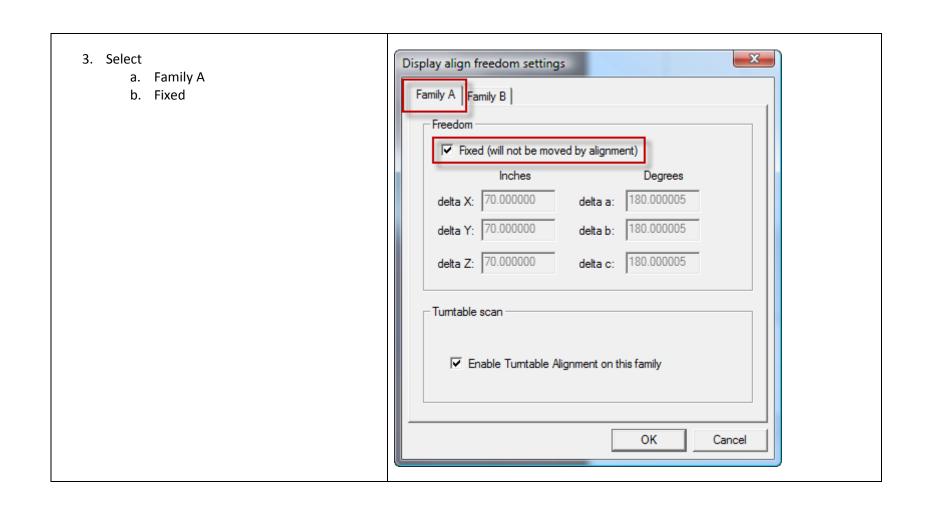


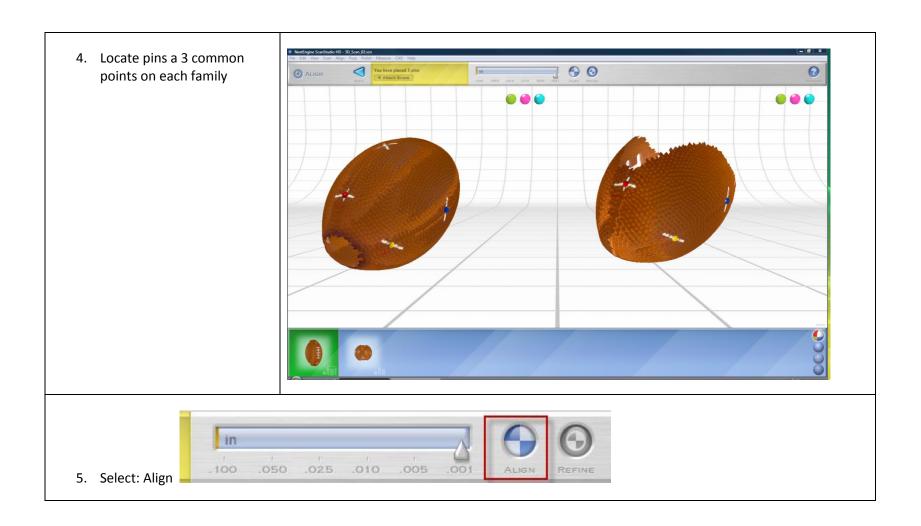


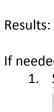










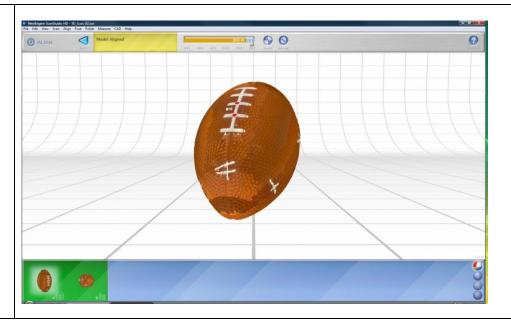


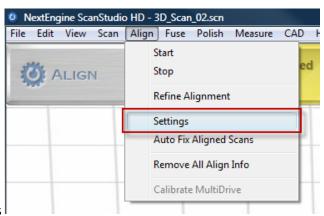
If needed do the following

1. Select: Refine

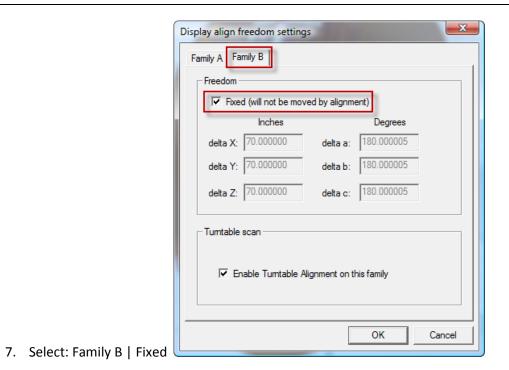


2. May need to check / re-do other alignments



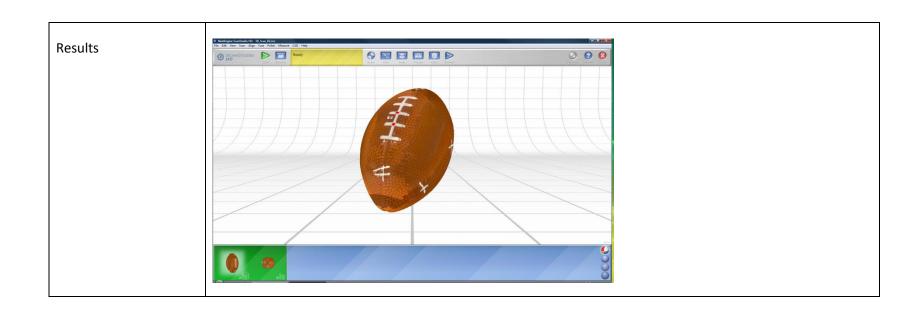


6. Select: Align | Settings |



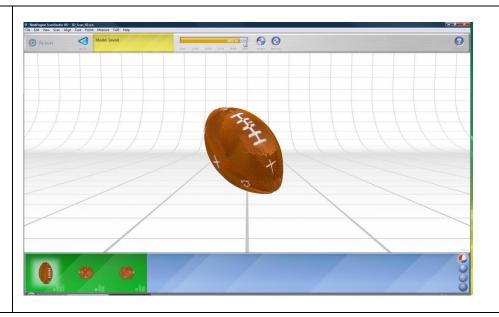
Note: If things still don't look aligned, try re-aligning the individual family scans. Try the following:

- 1. Select different locations for the pins
- 2. Add a pin to the selection set



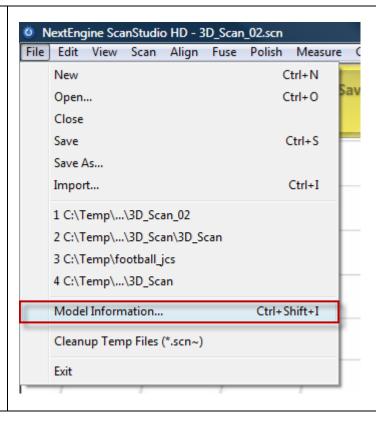
Repeat the process for the other end of the football

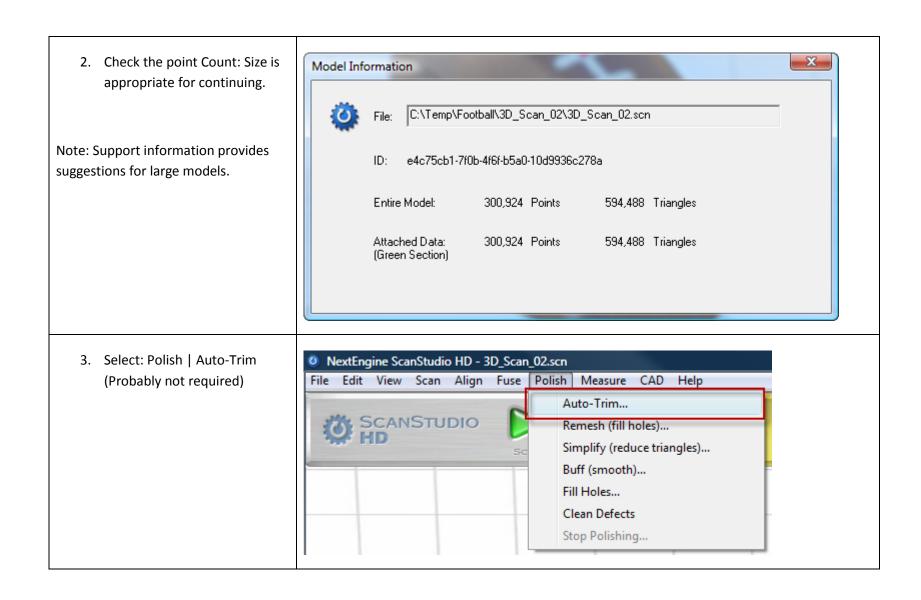
- 1. Scan: Bracket Scan
- 2. Trim
- 3. Align this family to the previous familys.

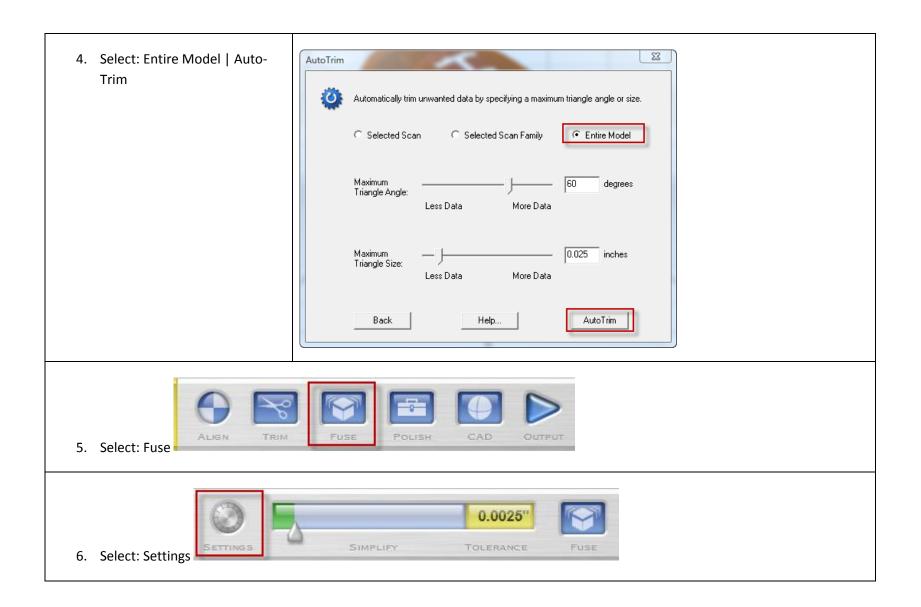


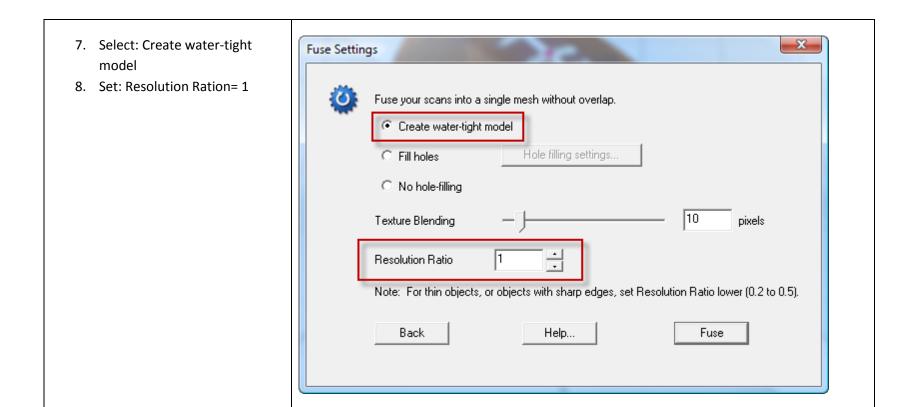
Fuse

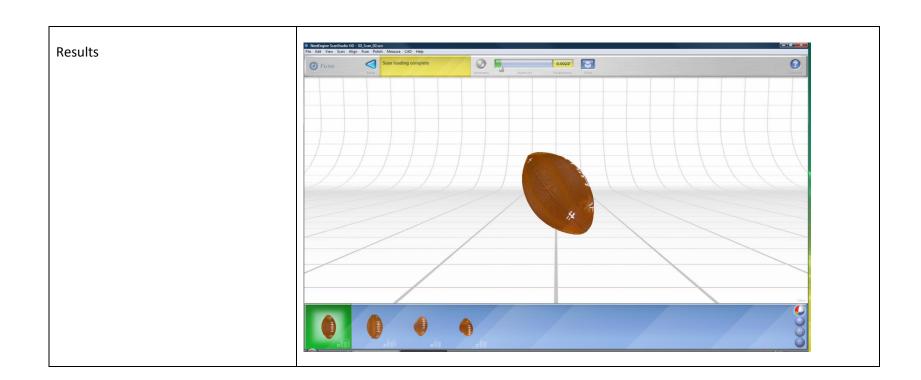
1. Select: File: Model Information

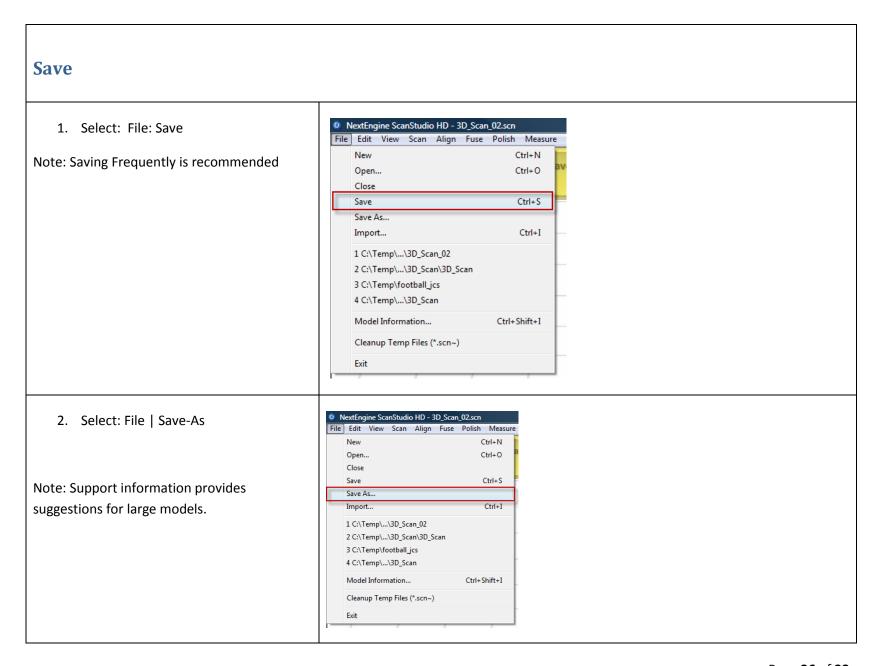








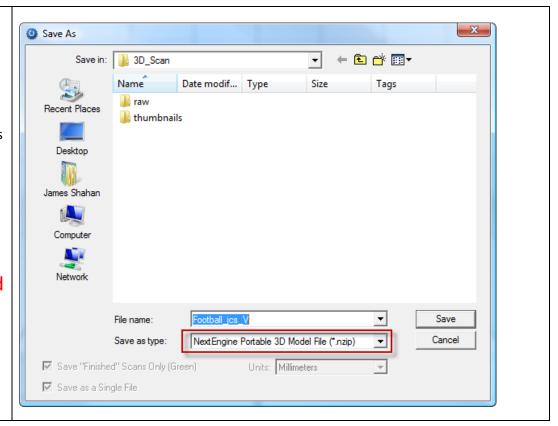




3. Select: Save as type: .nzip

Notes:

- This file contains all of the compresses and save all of the required information in a single file. This is the only file that has to be saved for future use.
- Copy this file to an alternate location (backup)
 - Highly Reccomended

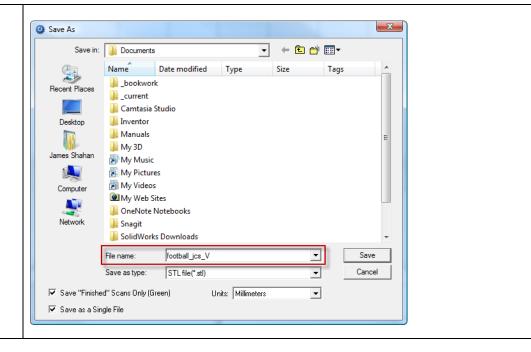


4. Select: File | Save-As5. Select: Save as type: .stl

Note:

• Possible use of units

• Select: Binary



Finish / File management

- 1. Make sure the final files(nzip) are copied to a back-up location.
- 2. Clean-up / delete other files.