

# Argen Digital Printed Models

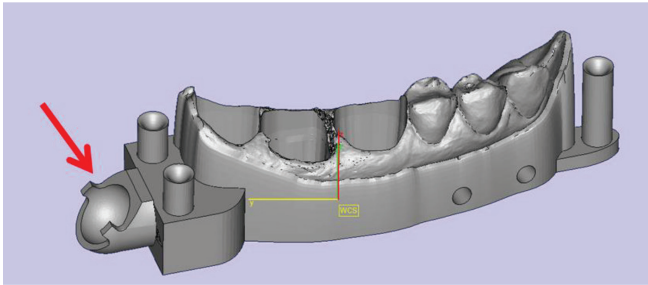
## Design Tips and Tricks



### Design Tip 1: Minimize Overhangs

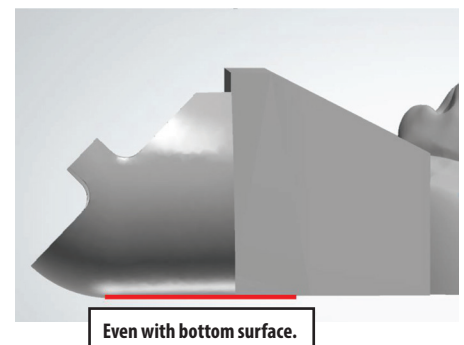
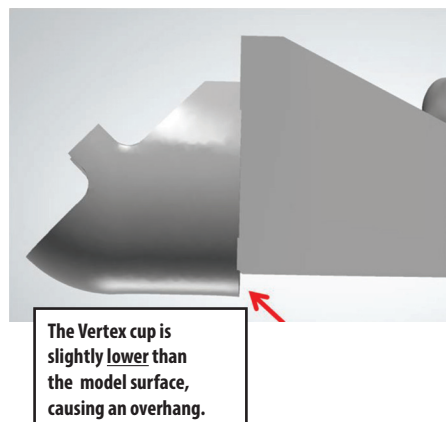
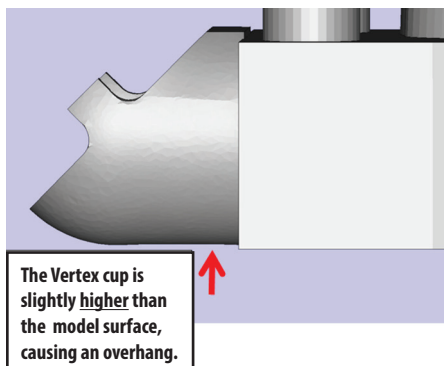
- When designing for 3d printing, it is important to understand the type of technology that will be used to make the unit.
- For example, the Projet technology from 3DSystems is a 2-material system that automatically supports any “overhang” on a part. This means you can design virtually anything, and it will print well.
- In comparison, the CLIP technology from Carbon is a 1-material system that does not automatically support overhangs. This means some parts can be challenging to build.

Example of an overhang: Vertex articulator interface.



The vertex interface can be placed anywhere on the unit. This means a designer could have the cup higher or lower than the rest of the surface.

The ideal spot for the Vertex cup is even with the bottom surface.



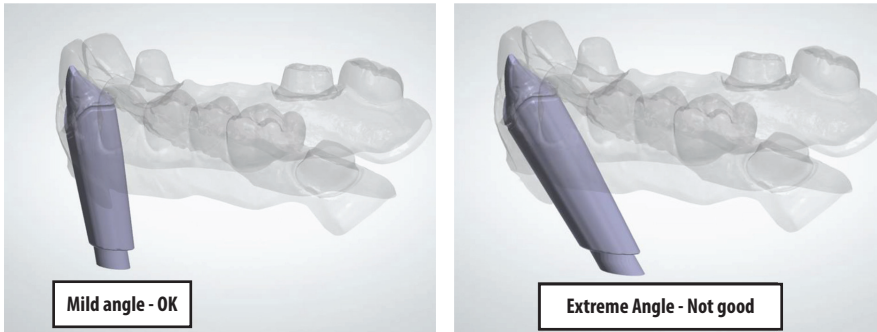
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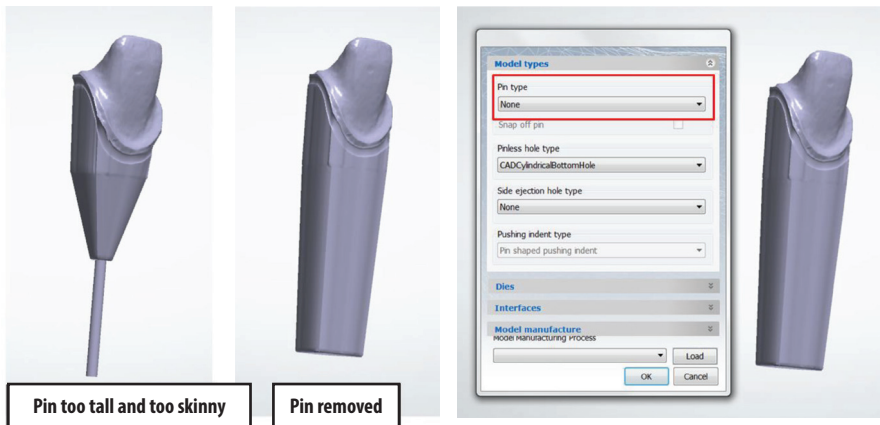
### Design Tip 2: Minimize Angled Dies

For the smoothest surface, try to make the path of insertion on dies as vertical as possible.



### Design Tip 3: In Some Cases, Remove the Insertion Pin

For extremely small dies, the pin can become too small to print accurately. These can be removed in the design.



### Design Tip 4: Mark the Spline Close to the Teeth

By marking close to the teeth, you minimize the height of the dies. In some cases, shorter dies will fit better than taller dies.

