**Benchmarking**

**Project #: 11552**

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**Document:**

**Summary:**
This paper described the procedure of rapid prototyping by way of UV cured resin applied by a spray nozzle system. Chang included the software package and methodology used to slice the 3D model as well as the interface between the control structure and the computer. This work provides a baseline for sizing some of the power supplies as well. It suggests a slicing software called PowerSHAPE. Paths of the nozzles are generated in PowerMILL. PowerSOLUTION is the overarching software that deals with both of these processes. The paper also calculates needs for supports for internal or hanging features. This will not be applicable but may be useful for future iterations of DLP RP program.

**Application:**
Spray Nozzle

**Light:**
Ultraviolet

**Layer Thickness:**
1 mm