

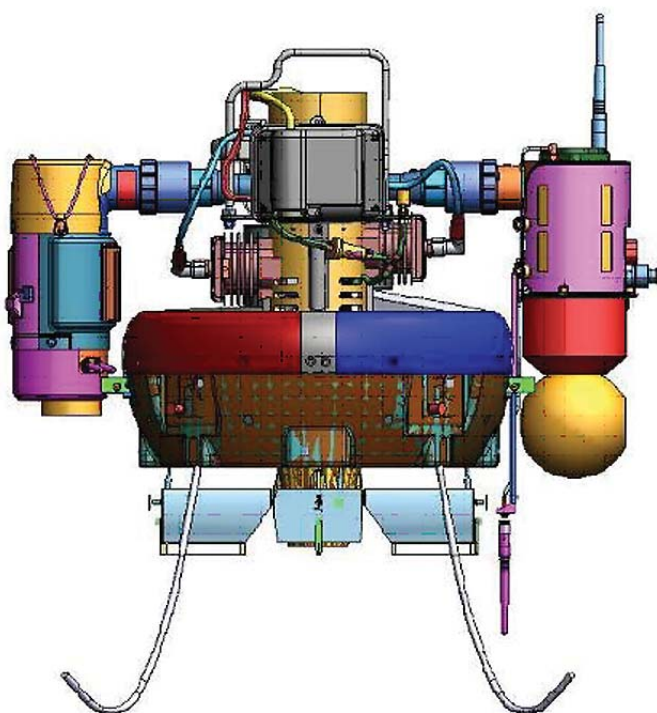
Techsburg Utilizes Direct Digital Manufacturing During Honeywell T-Hawk UAV Testing

When faced with the task to perform wind tunnel testing for the latest Honeywell T-Hawk unmanned aerial vehicle (UAV), Techsburg knew they would have to outsource to meet the physical testing requirements and time constraints. Techsburg enlisted Solid Concepts due to their high quality Direct Digital Manufacturing (DDM) capabilities, knowledgeable project engineers and wide range of materials and technologies.

Techsburg engineers feared many of the complex details in their CAD data would be lost during construction of the wind tunnel components. Solid Concepts, however, was able to ease this apprehension and produce accurate models while staying within Techsburg's time constraints. Jon Fleming, Techsburg Vice President of Research, claimed, "Without the support of Solid Concepts, many of our R&D goals would not be met. We credit Solid Concepts for our success in meeting our customer's wide variety of testing requirements."

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– Jon Fleming, Techsburg VP of Research



DDM was used to quickly generate detailed models that accurately depicted the T-Hawk UAV. The models were then used in wind tunnel simulation to gauge the effectiveness of the UAV's design. Some of the benefits realized from the DDM models included controlled model weight due to the material's lightweight properties and the ability to install complex test instruments. Techsburg also found DDM to provide simple model reconfiguration and a lower overall cost during model fabrication.

With the help of Solid Concepts, Techsburg was able to accomplish Honeywell's testing requirements in a way that was both cost effective and fast. From the drawing board to model assembly and wind tunnel testing, the entire process took only 6 weeks.