
DARcorporation News

September 2018



Featured Service

In-House 3D Printing for Small UAS Propellers and Other Parts

DARcorporation uses a stereolithography (SLA) 3D printer for prototyping UAS propellers and other small parts. The use of this 3D printer decreases the design time required for small UAS propellers by reducing the fabrication time from a week to a day, giving us the ability to fabricate designs and have them installed on our in-house small UAS propeller test stands the next day.



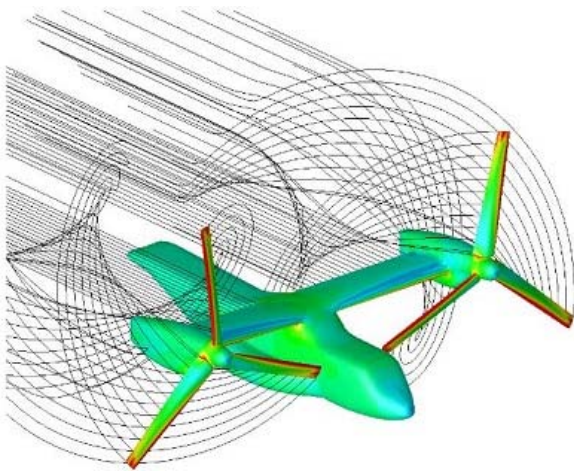
This 3D SLA printer allows us to keep a majority of our 3D printed parts and designs in-house instead of collaborating with other 3D print shops and having to wait weeks for parts.

Our 3D printer specifications are as follows:

- Build Volume (WxLxH): 5.7 in x 5.7 in x 6.9 in
- Laser Spot Size: 0.0055 in
- Layer Height: 0.001 - 0.004 in

Please [Contact Us](#) for more information.

FlightStream® 11.2 Software Release



FlightStream® 11.2 has many new features in its release. The largest feature is the unsteady solver. This feature in FlightStream® 11.2 is the solver's new ability to compute true time-dependent and motion-driven unsteady flow results. The new solver mode uses the unsteady formulation of surface vorticity and time-dependent wake propagation methods to shed vorticity as a function of time, generating the necessary temporal pressure fluctuations needed for this type of analysis.

This solver mode is coupled with the existing non-linear solver mode from earlier versions of FlightStream®. This results in FlightStream® being able to generate time-dependent stall effects.

Other release features include:

- Improved rotor induced velocity models
- Enhanced parallel processing
- Structural finite element modeling pressure export
- Mass-flow inlet boundaries
- Scripting-based solver sweep runs

[List of New Features & Enhancements](#) - [Request Software Pricing](#)



New Webinar on History of Airplane Design

November 14, 2018
11:00 AM - 12:00 PM CDT US

Instructor: [Dr. Jan Roskam](#)

Description: Dr. Jan Roskam continues the informative History of Airplane Design webinar series, focusing on specific companies and their contributions to the commercial, military and transport aircraft industries. Companies include Ilyushin, MIG, Bloch, Dassault, Breguet and Fouga.

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