

DARcorporation News

January 2017

Featured Service -

Propeller Design and Analysis

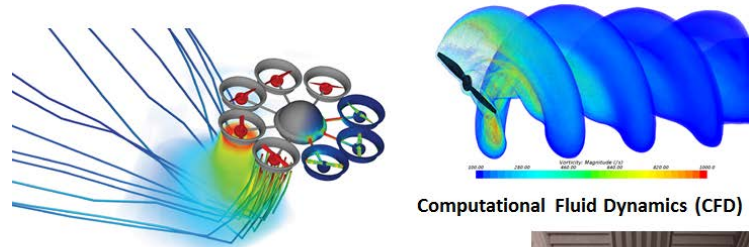
DARcorporation engineers are capable of performing detailed aerodynamic design and analysis on any aircraft or drone propeller. Flow characteristics around the propeller can be accurately analyzed and the optimal propeller layout can be determined to ensure superior aircraft performance. The pressure distribution obtained from the aerodynamic analysis is also used in subsequent structural design and analysis for optimal strength and weight of the propeller blades. We can quickly construct propeller prototypes and perform performance testing as well as acoustic analysis/testing, making DARcorporation a one-stop shop for your propeller design needs.

Key Capabilities:

- Aerodynamic Design and Analysis
- Structural Design and Analysis
- Performance Analysis and Testing
- Acoustic Analysis and Testing
- UAV and Drone Propeller Design
- Rapid Prototyping

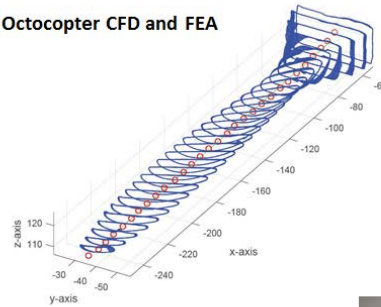
Interested in talking with us about our propeller design services?

[Contact Us](#)



Computational Fluid Dynamics (CFD)

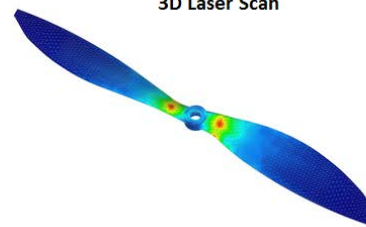
Octocopter CFD and FEA



3D Laser Scan



In-House Acoustic Chamber



Finite Element Analysis (FEA)



Performance Testing

2017 Propeller/UAV Design Publications

Presented at AIAA SciTech in January:

Aerodynamic Design, Analysis and Testing of Propellers for Small Unmanned Aerial Vehicles ([Link to ARC](#))

To be Presented at AIAC in February:

Aircraft Design Method for Weight, Volume and Cost of Electric Motors

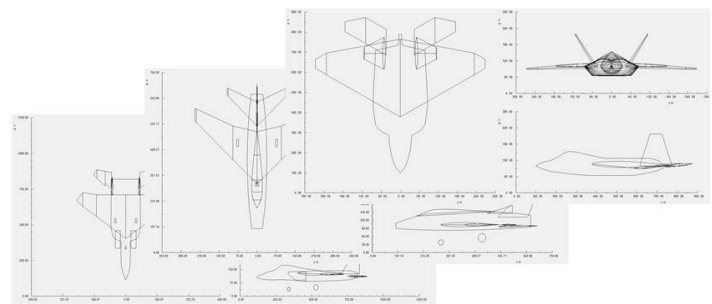
Rapid Weight Sizing Methodology for Small Unmanned Aerial Systems (Quadcopters)

To be Presented at AUVSI Xponential in May:

UAV Propeller Design and How Necessary it is for Your UAV Performance

In Other News -

Three new fighter airplanes are available on our [AAA Examples](#) webpage: the Boeing F-15A Eagle, Lockheed FA-22A Raptor and North American F100-F!



DARcorporation

25
YEARS
OF EXCELLENCE
IN AIRCRAFT DESIGN

