

About AAC

Advanced Aircraft Company (AAC) is an aeronautical engineering and aircraft manufacturing company based in Hampton, Virginia. AAC produces vertical takeoff and landing (VTOL) unmanned aerial systems (UAS) targeting commercial and military markets.

The Hercules UAS is the first aircraft product of AAC, to be followed by Greased Lightning, a NASA licensed technology.

Founder & CEO

Bill Fredericks

B.S. Aeronautical Engineering
Purdue University

US Marine Corps: Captain
MOS: Field Artillery

Bill performed the conceptual design of the Greased Lightning UAV at NASA Langley, and led the project through detailed design, fabrication, and flight testing.



Applications

Precision Agriculture

Infrastructure Inspection

Property Inspection

Police and First Responders

Department of Defense

Surveillance

Atmospheric & Marine Science

Rural Area Package Delivery

Contact Us

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The Future of VTOL UAS



About Hercules

6 rotor UAS
36 lbs. gross weight
2-stroke gasoline engine
Span: 11 ft Length: 5 ft
UAS packs into 1, 55" x 29" x 16" case

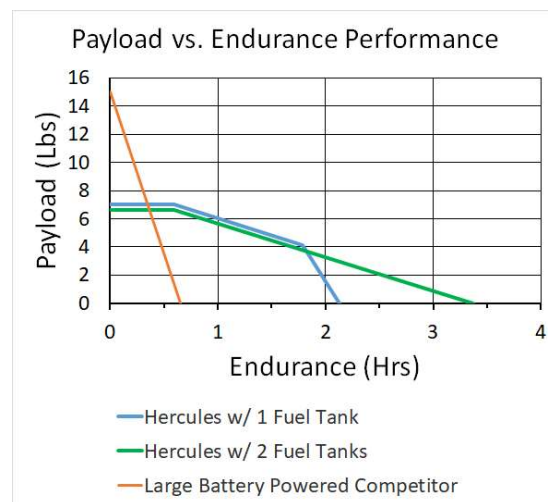
Hercules uses a series hybrid electric propulsion system and aerodynamic improvements to achieve its long endurance performance. Our patent-pending design is optimized to fly at higher airspeed than other multi-rotors.

The aircraft is currently in its developmental flight testing phase. Initial production is targeted for Fall 2017.



Payload vs. Endurance

Hercules has broken the world record for multi-rotor endurance. Compare our payload vs. endurance tradeoff with a similar sized octo-rotor:



Benefits

Record breaking long endurance
Quickly packs into a small SUV
Improved utilization
Ease of use

About Greased Lightning

19 Hour endurance w/5 lbs. payload
Max endurance 27 hours
Max payload 10 lbs.
Top speed 70 knots (81 mph)

A true “no compromises” VTOL UAS, Greased Lightning requires no launch or recovery equipment. Designed with a low acoustic signature, our quiet drone is able to run in “Silent Mode” for 15 minutes at a time.

Additionally, Greased Lightning can continue safe flight following the loss of any electric motor.



How will your business benefit with faster, higher performance aircraft?

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