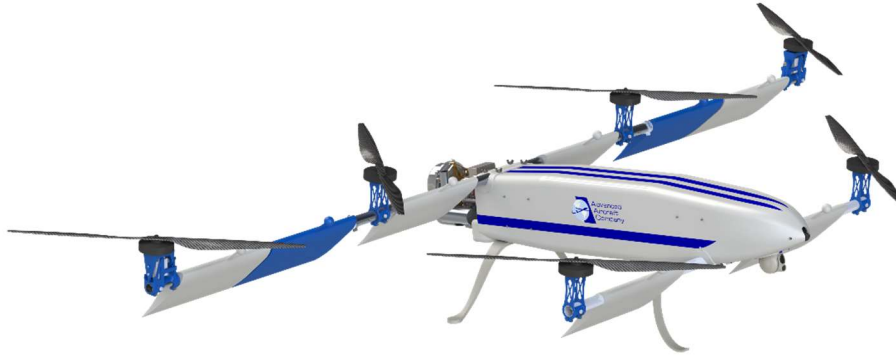


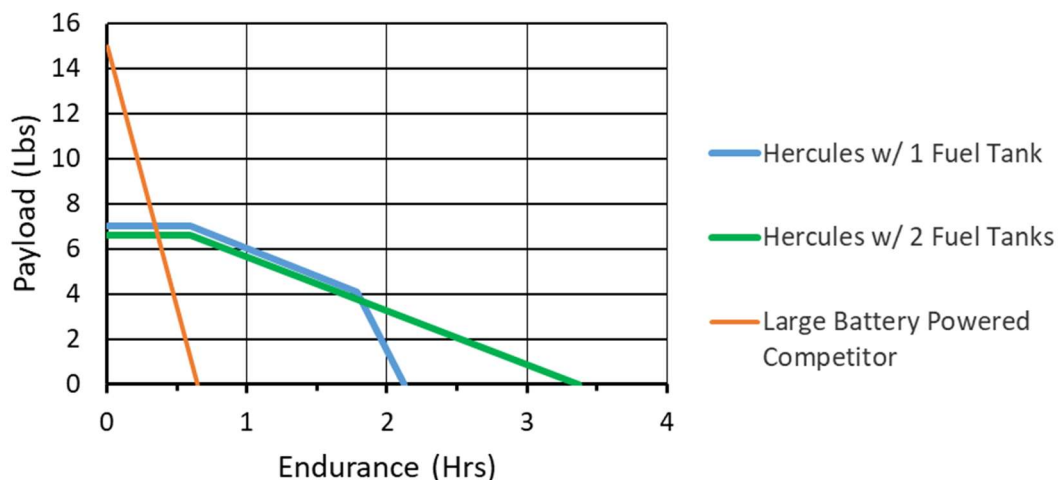
Version Date: Aug 18, 2017

Hercules UAS Specifications



- Fills the gap between group 1 size (hand launched) and group 2 size (catapult launched).
- Small footprint: Entire system packs inside 1 case that can fit in a hatchback car or small SUV.
- Vertical takeoff and landing (VTOL): Can operate from small vessels.
- Large payloads: The aircraft is intended to carry group 2 size payloads.
- Long endurance: Time of flight exceeds group 1 UAS.
- Quickly launched: Goal → 10 minutes from opening the case to airborne.
- Easy to use: Retains the ease of use of a conventional multi-rotor UAS.
- Minimal training required: Significant reduction in training time compared to group 2 runway independent UAS.
- Line replaceable units: Majority of components can be quickly replaced with a spare and the aircraft can return to flight swiftly.
- Modular payload bays: The nose and center payload bays are quick to remove and swappable to enable rapid reconfiguration for different missions.

Payload vs. Endurance Performance



Note: Performance assumes continuous hover. Endurance will increase with forward airspeeds.



Specifications

Storage Case Dimensions

Entire system packs into 1 case 54.4" x 29.2" x 16.0" Outer Dimensions

In-Flight Dimensions

Length 65 in
 Width 130 in
 Height 19 in

Weights

Maximum Gross for Takeoff 36.0 lbs
 Maximum Useful Load (Fuel+Payload) 8.5 lbs
 Maximum Payload 7.0 lbs
 Typical Empty Weight 27.5 lbs

Modular Payload Bays

Nose Payload Bay Camera turret less than 4 in diameter and 2 lbs
 Center Payload Bay 12 in length, 6.5 in width, 3.5 in height

Motors

Number of Electrical Motors 6
 Motor Type Brushless DC
 Motor Make and Model T-Motor U8 Pro
 kV Rating 135
 Electronic Speed Controller Castle Phoenix Edge Lite 50
 Cruise Speed Range 0 to 40 kts

Propellers

Make T-Motor
 Model 28.2x9.2L

Hybrid Electric Propulsion System

Electrical Components LaunchPoint Technologies
 Engine Desert Aircraft DA-35
 Electronic Fuel Injection HFE International
 Fuel Type 93 Octane Gasoline with 40:1 two-stroke oil mix
 Fuel Tank Capacity 100 oz
 Optional 2nd fuel tank 200 oz Total
 Payload Power 50W at 28VDC Optional regulator to provide lower voltage
 Nominal Bus Voltage 28 VDC
 Battery 7S 70C 3300mAh

Note: These limitations are advisory in nature and subject to change.