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Drone Mass Properties

Unmanned aerial vehicles, UAV's or drones, no matter what you call them, represent a fastgrowing aviation segment featuring quickly evolving technologies and design philosophies. Drones are used extensively in both military and commercial applications



ranging from commercial drone delivery of goods to intelligence, surveillance, and reconnaissance (ISR) missions, to sophisticated weaponized military assets.

Since 2014, Raptor Scientific has provided high-accuracy mass properties services for military UAV control surfaces, and we measure full mass properties on commercial drones. To date, more than 250 units have been measured and balanced in our Connecticut lab. We are now working with one of the world's largest commercial drone companies to satisfy the weight and CG requirements defined by FAR parts 91 and 135.

The ever-changing landscape of drone configurations and applications drives different needs from a mass properties perspective. Multi-rotor, hybrid-multirotor (VTOL), and larger drone configurations require different needs from a mass properties perspective. Click through to learn more about the specific needs of the various drone applications and our support for them. Learn more >>

UAV measurement services offered include:

- Mass, CG and MOI of canopies, control surfaces to reduce flutter, landing gear, and fixed-wing drones
- Mass, CG, MOI, POI of quadcopters
- Mass, MOI and balance of props



 Mass, CG, MOI, and POI of surrogate airframes

Click here to learn about our measurement services

Seminar on Mass Properties Measurement

We are excited to be re-opening our facilities for in-person seminars!

Join us for our Fall Mass Properties Measurement and Calculation Seminar on October 19 - 21, 2021 at our Berlin, CT facility.

Click to register today!

How are we doing? Please let us know, We want to hear from you! Click here to take our brief survey. **Recent Business Activity**

Model SE90168 Weight and CG Instrument - Commercial Drones

Model POI3500 Spin Balance Instrument - Defense Services

Measurement of Lunar Rover - Space Exploration

Model KSR2200 Mass Properties Instrument - International Defense Services

Model KSR330-60 Mass Properties Instrument - Defense Services



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