



UPS Advancements in Aviation

September 2022

UPS in Pennsylvania

Facilities, Employees, and Fleet

- UPS Facilities: 131
- Employees: 24,987
 - PT: 9,201
 - FT: 15,786
- Annual Package Volume: 300 Million
- Daily Delivery Stops: 330,000
- Vehicles: 3,150+
 - Tractor Trailers: 1,000+
 - Package Cars: 3,700+
 - Alternative Fuel Used: Nearly 5 million gallons
- Annual Total Miles Driven: Approximately 200 million
- Daily Flights to PA: 45
- Airports Served: Harrisburg (MDT), Pittsburgh (PIT), and Philadelphia (PHL)

UPS Aviation: UPS Flight Forward

Moving Our World Forward by Delivering What Matters

Possible Applications for Drones

HEALTHCARE



Time sensitive
medical supplies
& lab samples

CONGESTION



Reduce ground
transportation
congestion

RURAL ACCESS



Access for rural &
inaccessible due
to disaster areas

GREEN DELIVERY



Clean energy
delivery to reduce
carbon emissions

UPS Aviation: UPS Flight Forward

The Flight Forward Story

- **Founded in 2019**
- **Received the first U.S. FAA Part 135 Standard air carrier certification** to operate a drone airline and is operating daily revenue-generating flights with drones. The FAA certification also enables UPS Flight Forward to fly payloads of up to 7,500 lbs. either with an operator or autonomously.
- **First revenue-generating package delivery drone** flights in U.S. history
- **Delivering Medicine, Medical Supplies, Blood Samples and Vaccines:**
 - Partnership with WakeMed Hospital in Raleigh, NC delivering over 125 monthly deliveries of medical supplies and blood samples.
 - Partnership with CVS in the Villages, FL completing over 1,000 deliveries of medicine in the past year.

UPS Aviation: Flight Forward

Our Fleet: Matternet – M2 Drone



Type: Unmanned Aerial Vehicle

Range: 12+ mile

Speed: 22 mph

Payload: 5lb

Technology: Autonomous and Operator



UPS Aviation: Flight Forward

Our Fleet: BETA – ALIA 250C



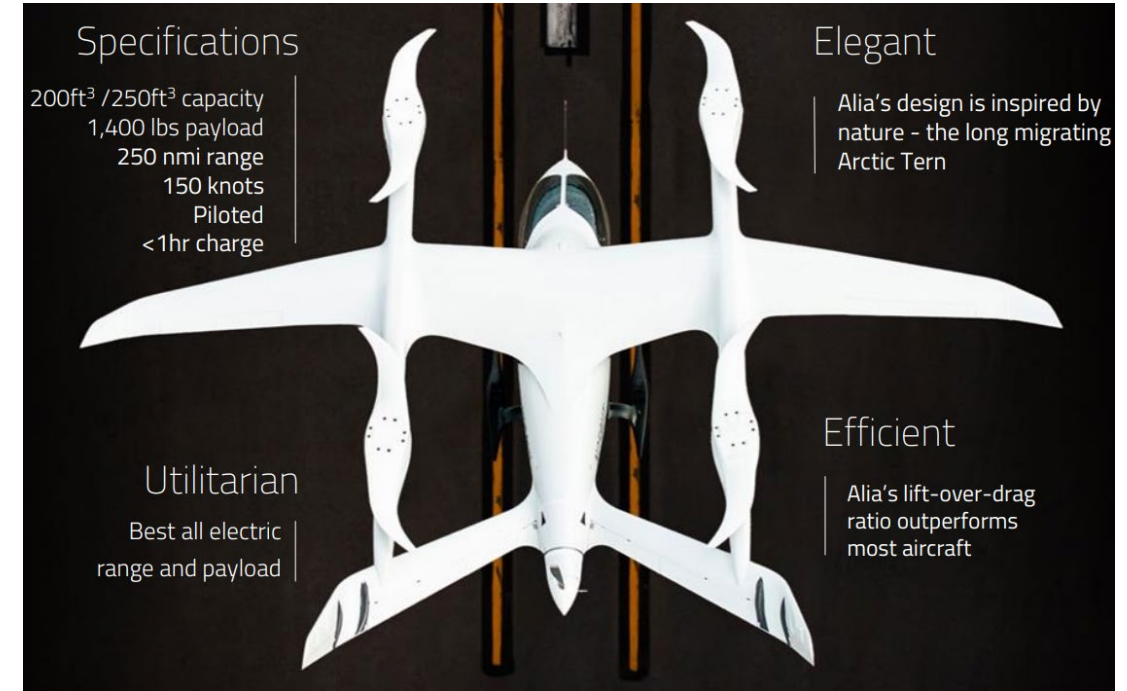
Type: Electric, Vertical Takeoff and Landing (eVTOL)

Range: 250 mile

Speed: 170 mph

Payload: 1,400 lbs

Technology: Autonomous and Operator



Up to 150

Ordered all-electric aircraft, manned or autonomous. First ten scheduled in 2024.

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Drone Legislation

UPS has a long history operating its own cargo airline, where safety continues to be a core value. That expertise is an important element in advancing safe drone operations under FAA rules and regulations.

As drone use grows, **UPS supports regulation of the industry at the federal level**, similar to current aviation laws, to avoid a patchwork of laws in each state. Currently, each new service area must be considered at a local level based on local regulations, customer interest, community and regulatory support.

UPS Flight Forward **supports privacy rules, but wants to ensure rules are not created that are overly broad and that would affect customer service and the public**. For example, although our current UAS operations do not have the ability to capture images, cameras may be needed in the future for applications such as delivery confirmation.



THANK YOU