AD-150

High Speed VTOL UAS

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The AD-150 is American Dynamics Flight Systems' next generation maritime capable high speed Vertical Take-Off and Landing (VTOL) Unmanned Aircraft System (UAS).

The AD-150's capabilities to perform vertical take-offs and landings, and cruise at high speeds make the platform a unique and ideal choice for both land and sea based operations.

American Dynamics Flight Systems' High Torque Aerial Lift (HTAL) implementation in the AD-150 maximizes the vehicle's control authority during hover and transition to forward flight.

The AD-150 features a modular mission payload design, with internal bays and external stores located in the vehicle's center of gravity. The AD-150's versatile payload bay configuration allows the AD-150 to support the most demanding payload systems and missions.

AD-150 features:

- Advanced tilt-duct propulsion system enables both vertical take-off and landing and efficient high speed cruise

- Modern airframe design, fully validated through the use of reputable computational fluid dynamics (CFD) systems

- Composite airframe constructed using carbon fiber and Kevlar materials

- High performance turboshaft powerplant

- Versatile payload configuration with internal and external payload stores

- Interoperable data links and Ground Control Station (GCS) interfaces

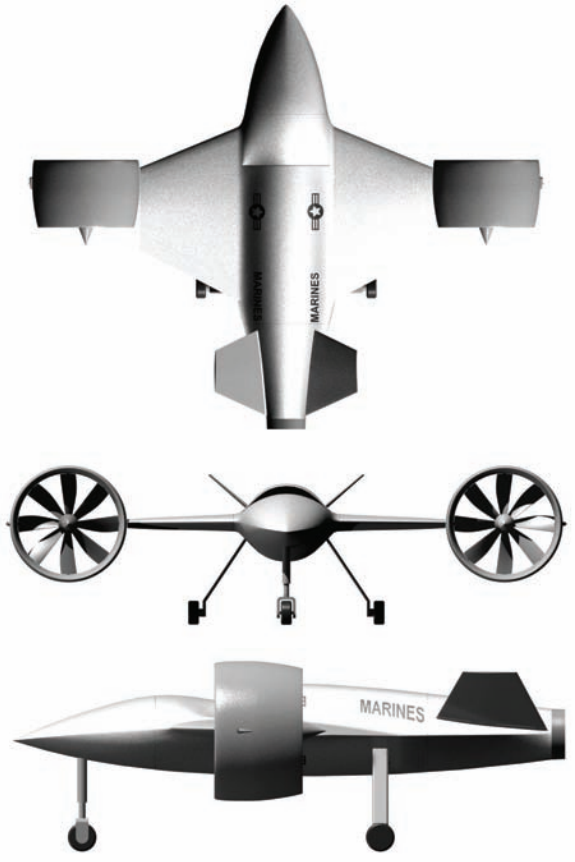
Technical Specifications

Air Vehicle

Length	14.5 ft
Wing Span	17.5 ft
Height	4.75 ft
Max Speed	300 kts
Max Takeoff Weight	2,800 lbs
Payload Capacity	500 - 1,000 lbs
Powerplant	PW 200 or T700
Fuel Type	JET-A, JP-4, JP-5
Navigation	Dual GPS with INS/IMU

System Interoperability

Command & Control	STANAG 4586
LOS Communications	TCDL



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