Atlas6

ADLER AEROSPACE

BEST IN CLASS HEAVY-LIFT HYBRID UAV

Defense Configurations

- Uparmoured w/ ballistic Kevlar base and thermal shroud, self-sealing fuel tanks
- AI-Tactical Hub "Commander"
- ISR Interceptor EW Package- "Shield"
- Communications Relay
- Glide Bomb Launcher
- Fixed-Wing Strike Drone Launcher
- Anti-RF system- "Hunter"
- 12 FPV Mothership- "Storm"
- Anti-Aircraft Missile launcher
- Shaheed Hunter
- Grenade Launcher
- Pipe Bomber- Bunker Buster
- Remote Refuel System
- Thermite Dropper
- Laser Rangefinder or Target Designator
- HPM
- Mine-Layer
- Barrier Deployer
- Smoke Launcher
- Provision Hauler
- Water Tank Hauler
- Ammo Hauler
- Bulk Cargo Net

The **Atlas6** Heavy Lift Drone is a cutting-edge hybrid UAV designed to push the boundaries of endurance, payload capacity, and operational versatility. Engineered for precision, reliability, and adaptability, the Atlas6 is the ideal aerial platform for logistics, surveillance, search and rescue (SAR), counter-UAS operations, and military resupply missions. With multiple fuel tank configurations, an industry-leading payload system, and exceptional flight endurance, the Atlas6 stands out as the most advanced UAV in its category.

Atlas6 has been built from the ground up to maximize lift efficiency while maintaining exceptional range and stability. Whether carrying mission-critical cargo, advanced sensor systems, or counter-UAS technology, this UAV adapts to any scenario with precision.

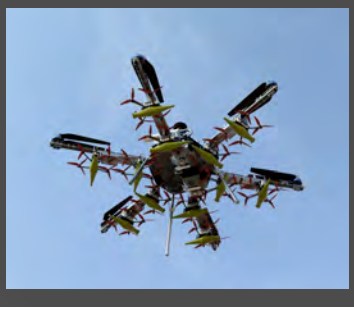
Atlas6

Unmatched Endurance, Payload, and Versatility

- *Hexacopter Configuration: Provides superior stability, maneuverability, and lift power*
- *Hybrid Gas-Electric System: Ensures maximum efficiency and long-duration flights*
- *Best-in-Class Payload Versatility: Configurable fuel-to-payload ratio for mission-specific need*
- *Longest Flight Time in its Class: Up to 9.9 hours (594 min) of continuous flight*

10 Hours+ Max Endurance

50 Kilo Max Payload



SPECIFICATIONS

AIRCRAFT SPECIFICATIONS

- Configuration: **Multirotor-Hexacopter**
- Frame: **Carbon fiber composite**
- Dimensions Un-Folded: **260.6×113.7×138.4 cm** (L×W×H)
- Empty Weight: **45.6 kg**
- Weight with flight batteries: **49 kg**
- Weight with 11L fuel load: **57 kg**
- MTOW (fuel load + payload): **105 kg**
- Maximum payload: **56 kg**
- Max payload w/ 11L fuel load **48 kg**
- Modular Payload system
- Fuel Tanks Options **6**
- Tank Sizes: **11L, 22L, 33L, 44L, 55L**
- Ingress protection **IP35**
- Connector Protection **IP67**
- Rotors **6**
- Rotor Diameter **42**
- Blade Material **CFRP**
- Max Operating Temp **-20° to +40° C**
- Sound w/ max payload @ 500m **42 db**

AVIONICS & COMPUTATIONAL

- Flight Controller **Cubepilot**
- Flight Computer **PX4 based**
- w/Secondary backup fully Redundant Systems
- Stabilization Modes: Mission, stabalized, position hold ect.
- Flight modes: Auto, loiter, altitude hold, RTH, land, guided (waypoints)
- Onboard Processor **Jetson Nano**
- Operating System **Linux**
- Mission Planning **Mavlink**

FLIGHT PERFORMANCE (ISA DAY)

- Max Airspeed: **110 k/h (30.5 m/)**
- Cruise Airspeed: **72 k/h (20 m/s)**
- Ascent Rate - continuous: **3 m/s**
- Ascent Rate - peak: **10 m/s**
- Descent rate - continuous: **2 m/s**
- Descent rate- peak **5 m/s**
- Max Horiz. Speed (SL, no wind): **21 m/s**
- Max Pitch Angle **35°**
- Max Altitude with 11L fuel tank/ no Payload: **4300 m ASL**
- Max Altitude with 11L fuel tank/ max Payload **3000 m ASL**
- Operational Altitude **500 m ASL**
- Max Take Off altitude **3000 m ASL**
- Max flight time (ISA day, cruise speed, normal operating height) with 8 kg payload, 55L fuel load: **9 hrs. 54 min (no reserve)**
- Max flight time (ISA day, cruise speed, normal operating height) with 50kg payload, 11L fuel load:**42 min (no reserve)**
- Max flight range (ISA day, cruise speed, normal operating height) with 8 kg payload, 55L Fuel load: **700 km**
- Max flight range (ISA day, cruise speed, normal operating height) with 50 kg payload, 11L fuel tank: **36 km**
- Thrust to weight ratio **2:1** at max payload Wind speed limits **15 m/s**
- Precip limits **waterproof in light precip**

NAVIGATION

- RTK, Anti-Jamming GNSS
- Inertial Navigation System (INS)
- Magnetometer
- Airspeed Sensors
- LIDAR Altimeter
- Visual Positioning System

POWERPLANT

- Engines **2**
- Displacement **120cc**
- Configuration **2-Stroke Boxer**
- Max RPM **8300**
- Nominal RPM **7200**
- HP **12**
- Cooling **Liquid cooled**
- Fuel regulation **EFI**
- Fuel: **95 petrol + 2T oil mix (4%)**
- Fuel Consumption at TO, 50kg payload, 11L fuel: **14 l/h**
- Fuel Consumption at cruise speed, 25kg payload, 10L fuel: **9 l/h**
- Fuel Consumption at hover,10kg payload, 10L fuel **5 l/h**

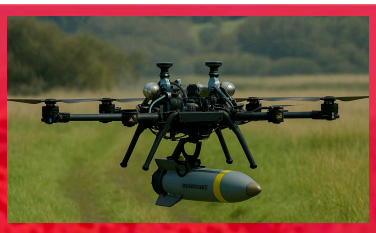
ELECTRICAL

- Generators **2**
- Peak Watts **7000** watts
- Peak amps **144** Amps
- Nominal voltage **44.4 -49.5V**
- Batteries **4**
- Configuration **Li Po 12s**
- Nominal capacity **5000 mAh**
- Continuous current **500A**
- Motors **6**
- Max watts per motor **5700**

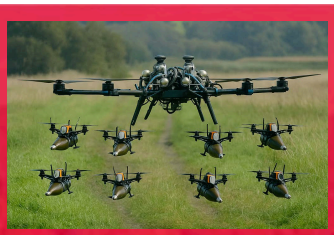
COMMS

- GCS open architecture
- RF Telemetry/ Video: Silvus, DTC, Radinor, Creo, Persistent and other encrypted software defined
- Data Link Redundancy
- Starlink/ Satellite Link Integration
- Mobile network- LTE modems
- Fiber-optic

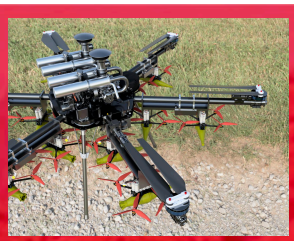
Jammer ""Shield""



Glide Bomber



"Storm" FPV Mothership



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