



The future of unmanned logistics built in Norway

Developed to support Norwegian emergency response services

Airlift Solutions AS offers a logistics solution using drones with a range of up to 20km between sender and recipient locations. The drone has the capacity to carry up to 4kg with a size of 47x30x27cm. The Airlift Solutions drone has full certification to fly over densely populated areas and can be programmed for full automatic flight.



Customer Integration

Airlift Solutions AS has developed a hangar solution that is space efficient, whilst also ensuring the safety and security of the cargo and drone when not in use. The customer packs the load in a custom bag and places it in the drone. Next, they simply select the 'receiver' and press send on the control panel. Our control centre takes over the operation to ensure the delivery is secure and to monitor the drone until it lands safely in the hangar at the receiving point. Full autonomous flight to preprogrammed destinations with automatic landing and take off / with recharging in the hangar.

Customer Value

Airlift Solutions AS provides a logistics solution that you have full control over. The safety of the cargo both on the ground and in the air is protected by the specialist infrastructure and in-flight monitoring. In addition, the drone delivers the load quickly and entirely based upon the customer's needs, overcoming the inefficiency of fixed delivery times. For example, the drone can fly 20km over a city in under 20 minutes or reach remote destinations. The customer can track their goods and send a message to the receiver to alert them of the cargo's arrival. This form of transport is a sustainable solution, with very low energy consumption and that does not burden our already busy roads and meets challenges of challenging infrastructure.

Landing Surface and Hangar

Airlift Solutions AS supplies a specially adapted (4x4 metre) hangar to assist the drone operation and storage. The hangar is specifically built to ensure the drone is protected when not in use. There is easy access to the load through the door in the hangar. The drone is stored in the hangar and the cargo is ready and available for pickup immediately after landing. The drone will be automatically charged once it has landed.

- Drone and landing surface is weather protected
- The roof opens up when the drone is going away or preparing to land
- Access control with customizable locking system
- Automatic operation and monitoring of landing site from the control centre

To make it easy to access the cargo, the cargo compartment of the drone will open automatically after landing. The cargo compartment is designed to accommodate loads of 47x30x24 cm. Together with the drone, a 4x4 metre hangar must also be installed in order for the drone to be protected from the elements when not in use.



THE DRONE IN THE AIR

Height	The drone will fly at various altitudes. The control centre will adapt flight altitude according to the route and other air traffic. Typical altitude is 50 to 120 meters.
Wind and rain	The drone will be affected by wind, but will be able to fly in the same conditions as regular helicopters. Rain is not normally an issue.
Snow	Snow is no problem for the drone. However, if there is a lot of wet snow, the drone (like many other aircraft) must be kept on the ground.
Fog	Fog is usually no problem. Some fog types can cause ice on the drone, which can lead to limited operation.
Temperature control	The temperature inside the drone can be adjusted if the load requires this.
How does the drone navigate?	The drone navigates itself via GPS.
Reliability	The drone is built to high standards using the best available components. This together with good landing sites will ensure high reliability comparable to helicopters.
Risk/Hacking	Drone Control Solution is designed to be highly resistant to cyberattacks and fully supported from Norway.

DRONE SPECS.

Colour	The drone is colored yellow to be easily visible.
Charging	Charging starts automatically.
Undercarriage	The chassis is designed so that the drone can land in wind.
Battery	There is a total of 4 batteries in the drone. If of battery A fails, it will still fly normally.
Propellers	Each engine is connected to its own propeller.
Engine	8 engines for increased safety.
Parachute	Parachute helps significantly reduce the risk caused by failure.