

# FROM AIRFRAME TO SURVEILLANCE PLATFORM





# WHAT WE OFFER YOU

"WE ARE YOUR ONE-STOP-SHOP FOR AIRBORNE SPECIAL MISSION AIRCRAFT INTEGRATION SOLUTIONS"



Here at Airborne Technologies, we pride ourselves understanding the customer's mission. We offer fast & flexible integrated mission solutions for fixed, rotary-wing aircraft and unmanned aerial vehicles. These solutions simplify the complexity of airborne surveillance processes for commercial, public safety and defence operations.

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Twin Otter Trio  
with SCAR-Pods for Police  
Aviation Operations

AS350 equipped  
for Powerline Monitoring  
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# WHAT WE DO

"WE TURN GENERAL AVIATION AIRCRAFT INTO SPECIAL MISSION PLATFORMS"



We design, integrate and certify state-of-the-art special mission equipment and systems into new & existing airframes to help our clients accomplish various special missions be it Search & Rescue, Aerial Surveying, Airborne Law Enforcement, Maritime Patrol or even Intelligence, Surveillance & Reconnaissance (ISR) operations.

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Aircraft Modification



Light-weight Carbon Fibre Camera Bracket

Whatever sensor, communication system or special configuration you need for your mission –  
**WE MAKE IT AIRBORNE!**

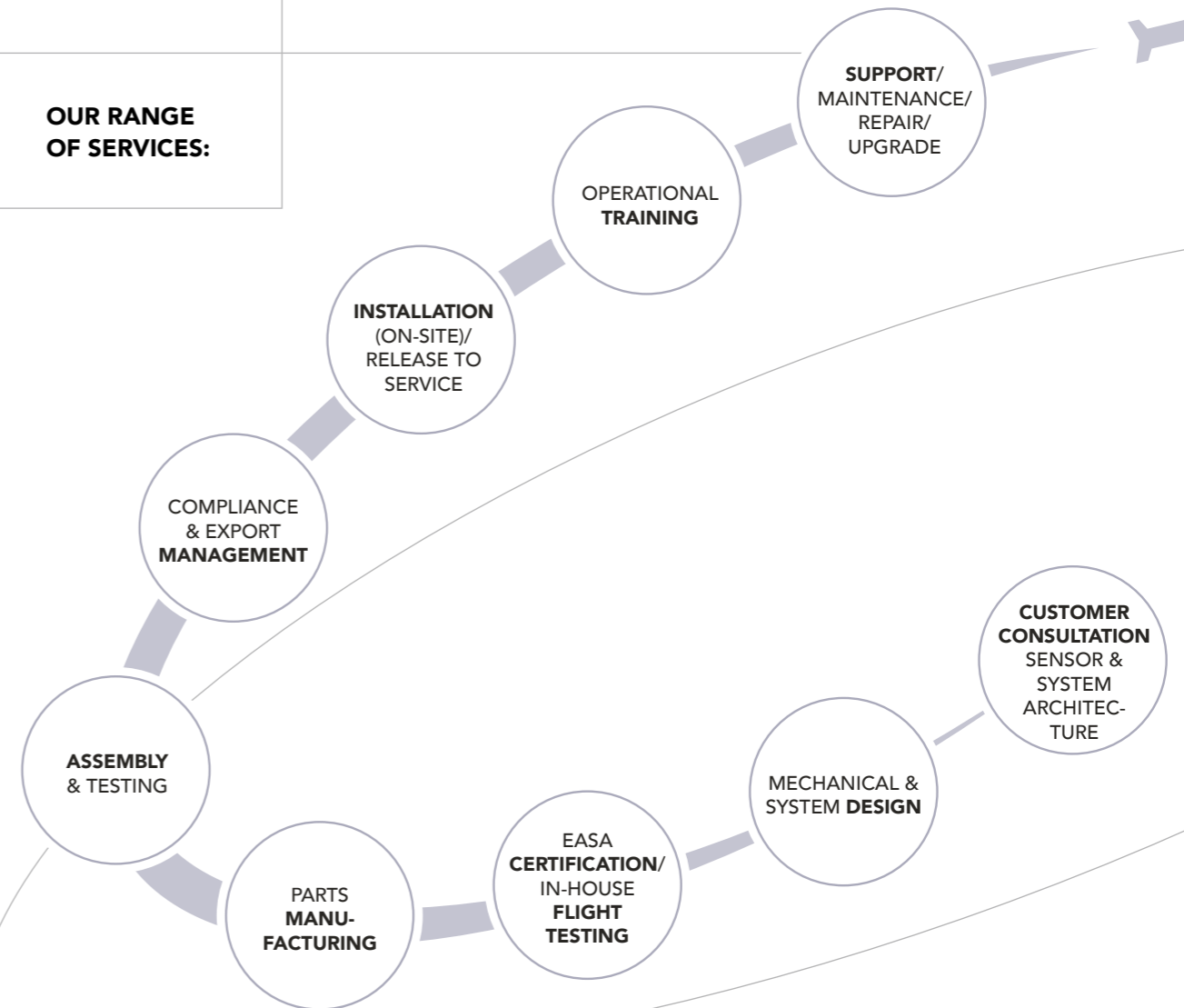


# WHAT MAKES US UNIQUE

"WE ARE A CUT ABOVE THE REST"



## OUR RANGE OF SERVICES:



### • TOTAL SOLUTION APPROACH

We manage every step of the integration and modification process from design, engineering, fabrication, installation and test flying to EASA certification.

### • CENTRE OF EXCELLENCE

We unite highly trained experts from all critical industry sectors (Aviation, Engineering, Aerial Surveying, Public Safety, Defense & Business) under one roof to achieve the best results.

### • INNOVATIVE

Our focus is innovation balanced with responsibility. Not everything that's new on the market is good. We find out what is truly effective for the client's mission and determine the right innovative solution.

### • FLEXIBLE

We are quick to renew and improve, act, respond, organise and engage.

### • SUPPLIER AGNOSTIC

We are impartial, unbiased, and specifically not aligned with any supplier. However, we have a great working relationship with many established aircraft, sensors and communication manufacturers worldwide which naturally benefits our clients.

### • FIELD PROVEN

Operating our own fleet and sensors, as well as the availability of our own ISR demonstrator aircraft gives us the experience to relate with our customers at eye level. We have the expertise to fully customize our solutions and to deliver immediate results anywhere in the world.



## WE DELIVER SPECIAL MISSION AIRCRAFT for roles in the Commercial, Public Safety and Defence Sector including:

- Mapping and Surveying
- Monitoring and Inspecting
- Police Patrol
- Police Surveillance and Investigation
- Search and Rescue
- Border Patrol
- Command and Control
- Intelligence, Surveillance and Reconnaissance
- And many more...

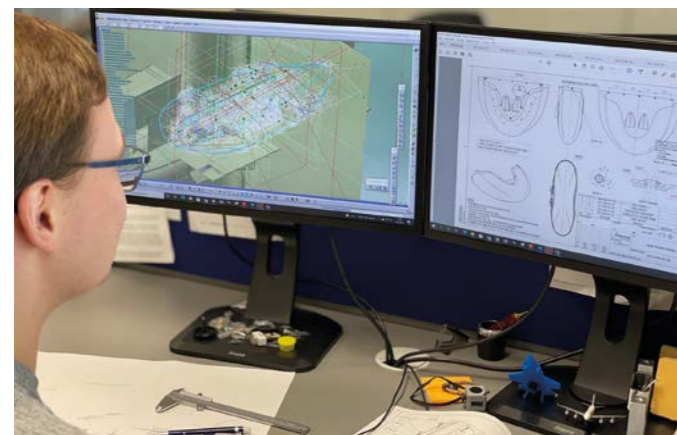
# WHAT MAKES US STAND OUT ABOVE THE OTHERS

"WE SAVE OUR CLIENTS TIME AND MONEY BY SELF-CERTIFYING AIRFRAME MODIFICATIONS AND LEVERAGING IN-HOUSE EXPERTS"



Amphibious Viking Twin Otter with EO/IR SCAR-Pod

We have our experts in-house. The inter-disciplinary know-how of our employees is the basis for the extensive scope of work our EASA approval covers. Like an aircraft manufacturer, we are approved by EASA (Part 21 – Design and Production Organization, Part 145 Maintenance Organisation) to certify an airframe modification from nose-to-tail without coordination and approvals with National Aviation Authorities which effectively saves our clients time and money.



## WHAT IT MEANS TO BE EASA CERTIFIED:



<b>EASA Part 21 J</b> approved Design Organisation	Design and certification of modification to helicopters and fixed wing aircraft (STC's and Minor Changes)
<b>EASA Part 21 G</b> approved Production Organisation	Production of products, parts and assemblies (EASA Form 1, CofC)
<b>EASA Part 145</b> approved Maintenance Organisation	Maintain, repair, modify and upgrade components already in service

### Approved to modify and integrate the following aircraft classes:

CS-27 Small Rotorcraft	CS-29 Large Rotorcraft	CS-23 Small Aeroplanes	CS-25 Large Aeroplanes	UAS – Drones

### WE UNITE ALL NECESSARY PRODUCTION SKILLS of a modern and top-performing Special Mission Integrator:

- Carbon Fibre Composite Parts
- Wiring Looms
- Electronic Assemblies
- Electromechanical Components
- Metal Work and Assemblies





# AIRBORNE LINX: CONNECT & CONTROL

Airborne LINX Workstation  
in Viking Twin Otter



"WE CONNECT ALL SENSORS AND COMMUNICATION SYSTEMS ON BOARD ANY AIRCRAFT WITH OUR INDEPENDENT MISSION MANAGEMENT SYSTEM FOR AIRBORNE SURVEILLANCE"



## CONNECT

A special mission aircraft is not unique because of one system or component, but more importantly, how all the systems and components correctly integrate and interconnect to perform as a single unit. Airborne LINX is the over-arching system that unites each complex piece of equipment on board an aircraft into an easy-to-operate workplace in the sky.

## CONTROL

The software controlling all relevant sensors and components of the system runs on a special, in-house designed mission computer. It manages all the pieces but stays in the background.

The Human Machine Interface (HMI) is the Mission Management Unit (MMU) that allows the operator to control the full architecture on a simple-to-use touchscreen. Embedded either in an ergonomic workstation or running on a tablet, the MMU enables the operator to simplify the management of sensors, C2 systems and screens. The overriding aim is to keep the flow of information simple while allowing the crew to concentrate on actual tasks.

A fully customized and ergonomic workstation optimizes the operator convenience. Such an "all-in-one" carbon fibre operator desk is installed in the cabin on quick release plates that enable easy roll-on/roll-off.



## SPECTRUM OF AIRBORNE LINX:



## THE WORKSTATION consists of all mission relevant components to include:

- Full HD-Touchscreen Monitors
- Data/Voice/Video Recorder
- Augmented Reality System
- Mission Computer
- Integrated Mission Management Unit
- Integrated Tactical Radios
- And many more...





# AIRBORNE LINX: FIXED INSTALLATION

"AIRBORNE LINX FOR FULLY  
FOCUSED MISSION PLATFORMS"



The mission equipment is fully integrated with the airframe. Airborne LINX turns your aircraft into a fully focused mission platform. **Our innovative components supporting the integration of the complete Airborne LINX System include:**

- Internal & External Lifting Devices
- Carbon Fibre Brackets
- Functional Pylons
- Customized Sensor Hatches
- Specialized Radomes



AW109 Bulgarian Border Guard – missionized with Airborne LINX

Internal Camera Lift



# AIRBORNE LINX: FLEXIBLE INSTALLATION

EO/IR SCAR-Pod on Airborne Technologies Pylon

"AIRBORNE LINX AS VERSATILE  
AS YOUR MISSION"



A complete Sensor Suite is attached via pods mounted on hard points. Airborne LINX provides multiple options for the end-user. All our SCAR-Pods (Self Contained Aerial Reconnaissance Pods) integrate with the Airborne LINX Mission Management Unit and are operated from the ABT customized line of Workstations.

**Plug & Fly:** Our SCAR-Pods are made out of carbon fibre and can carry a complete sensor suite, so that every aircraft and helicopter, equipped with hard points, can be made hassle-free into a surveillance aircraft without aircraft modifications. For aircraft that don't have hard points, Airborne Technologies can effectively integrate hard points to support the SCAR-Pod and other systems.



Radar SCAR-Pod on Viking Twin Otter

### SCAR-Pod Configurations

- EO/IR Sensor
- ELINT/ SIGINT/ COMINT
- VIDAR
- RADAR





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