AIRBORNE
TECHNOLOGIES

From Airframe to Surveillance Platform

Designed for Precision

“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.

Top: Twin Otter Trio with SCAR-Pods for Police Aviation Operations

Left: Headquarters Airport Wiener Neustadt, Austria

Right: AS350 equipped for Powerline Monitoring

Mission Equipment for your Aircraft

With our experience operating our in-house fleet of special mission aircraft and consistent working dialogue with our clients, we provide dependable and effective single-source solutions. Additionally, our in-house manufactured components perfectly support any demanding mission. We pride ourselves on integrating the right systems, increasing productivity, and improving the effectiveness of the flight crew.

AIRBORNE LINX CONNECT & CONTROL

MISSION EQUIPMENT

SCAR-POD FAMILY

The light weight carbon fibre pods carry a complete surveillance sensor suite which upgrades any aircraft with hardpoints hassle-free into an ISR platform with minor aircraft modifications.

CAMERA LIFT SOLUTIONS

Airborne Technologies develops specialized system lifting devices that accommodate gimbals up to 26” in diameter and are mounted internally or externally.

RADOME

We are experts in high-performance, low-signal-loss aircraft radomes. We design, certify, and manufacture radomes using world-class knowledge of leading-edge materials for lower cost, reduced weight & superior aerodynamics.

BRACKETS

Our carbon-fiber sensor brackets and mounts revolutionize the way sensors and special mission systems are attached to any aircraft. Mounting your sensor with our brackets reduces weight and increases aircraft endurance.

WORKPLACE

WORKSTATION

Ergonomic and efficient – Our optimized Workplace in the Sky – Tailormade for your platform and your mission requirements. This is where it all comes together.

MISSION MANAGEMENT UNIT

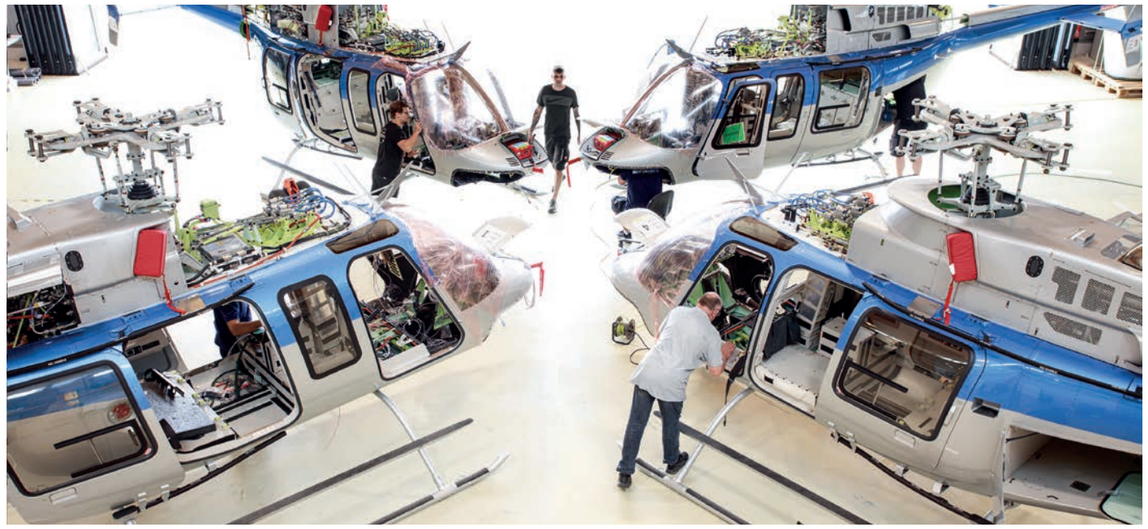
The intuitive user LINX Software interface allows the operator to control the full surveillance architecture on a simple-to-use touchscreen.

We deliver Special Mission Aircraft for roles in the Commercial, Public Safety and Defence Sector including:

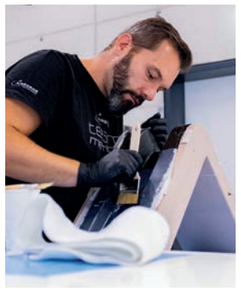
- Mapping and Surveying
- Monitoring and Inspecting
- Police Patrol
- Police Surveillance and Investigation
- Search and Rescue
- Border Patrol
- Command and Control
- Intelligence, Surveillance and Reconnaissance

... and many more

“We turn general aviation aircraft into special mission platforms”



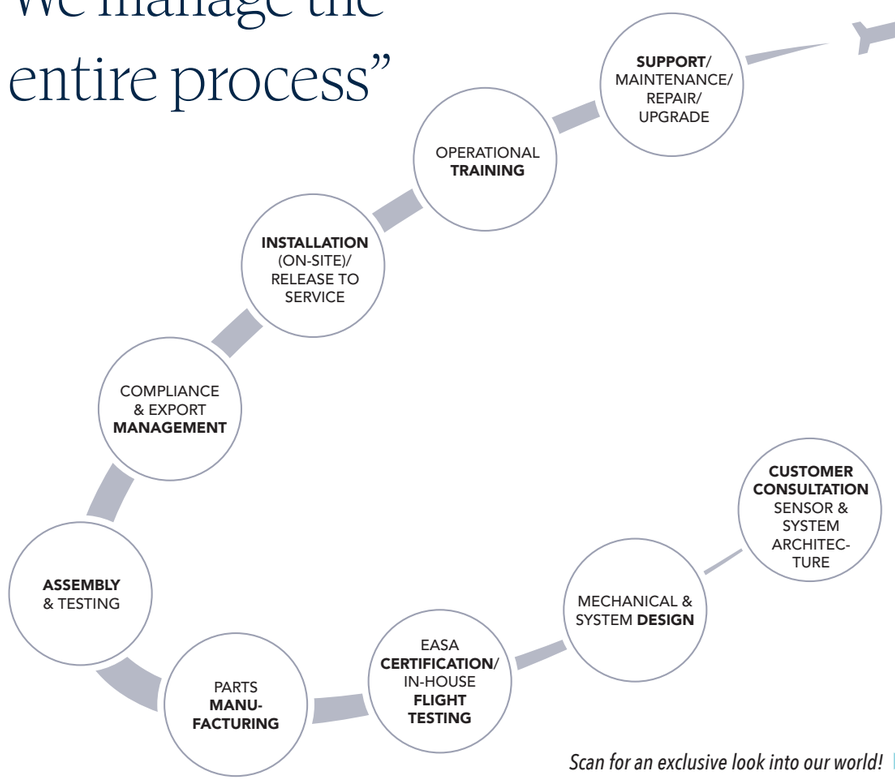
We design, integrate and certify state-of-the-art special mission equipment and systems into new & existing airframes to help our clients accomplish various special missions be it Search & Rescue, Aerial Surveying, Airborne Law Enforcement, Maritime Patrol or even Intelligence, Surveillance & Reconnaissance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



The interdisciplinary know-how of our employees is the basis for the extensive scope of work our EASA approval covers. Since all the production and manufacturing of sub & secondary components are accomplished in-house, the customer benefits from the efficiency of having all parts produced under one roof.

Photos: Aircraft Modifications

“We manage the entire process”



Scan for an exclusive look into our world!

We unite all necessary production skills of a modern and top-performing Special Mission Integrator:

- Carbon Fibre Parts & Milling
- Electrical Components Production
- Radome Production
- Cable Harness Production
- Metal Components Production

Photos: Aircraft Modifications

"We are a cut above the rest"

TOTAL SOLUTION APPROACH
We manage every step of the integration and modification process from design, engineering, fabrication, installation and flight testing 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 save our clients time and money by self-certifying airframe modifications"

Not only are the aircraft manufacturers (OEMs) allowed to make radical changes to their designs, but we are also certified to modify an airframe from nose-to-tail without any coordination and approvals from OEMs. We are specialized to make these modifications, wheras it is an additional effort for the manufacturers. The benefits for the customer are immense when it comes to meeting budgets and schedules.

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

What it means to be EASA CERTIFIED:

EASA Part 21 J approved Design Organisation	Design and certification of modification to helicopters and fixed wing aircraft (STC´s and Minor Changes)
EASA Part 21 G approved Production Organisation	Production of products, parts and assemblies (EASA Form 1, CofC)
EASA Part 145 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

“With us, you Connect & Control all sensors and communication systems on board”

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.

Top: LINX Workstation in De Havilland Twin Otter

Left: LINX Workstation in Bell 407 – Polish Police

Right: Mission Management Unit

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.

THE SPECTRUM OF AIRBORNE LINX

MISSION SOLUTIONS
for fixed and rotary wing aircraft

- LINX SCAR-Pod EO/IR
- LINX SCAR-Pod Radar
- LINX SCAR-Pod ViDAR
- LINX Camera Lift
- LINX Bracket
- LINX Radome

WORKSTATION

CONTROLLED SENSORS

- EO/IR
- Radar
- Search Light
- ARS
- AIS
- Recorder
- Electronic Warfare
- Datalink
- Tactical Radio
- Direction Finder
- Vidar

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 for fully focused mission platforms”

FIXED INSTALLATION

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

Top: AW109 Bulgarian Border Guard – missionized with Airborne LINX

Left: CASA CN-235 missionized with Airborne LINX – SASEMAR Spain

Right: External Camera Lift on AW109 – REGA Air Rescue Switzerland

“Airborne LINX as versatile as your mission”

FLEXIBLE INSTALLATION

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 with minor 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.

SCAR-Pod Configurations

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

Top: Amphibious Viking Twin Otter with EO/IR SCAR-Pod

Bottom: Radar SCAR-Pod on Aero L39 NG

AIRBORNE
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EASA Part 21 J approved Design Organisation
EASA Part 21 G approved Production Organisation
EASA Part 145 approved Maintenance Organisation

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