ANAVIA

HT-100

THE MOST ADVANCED UNMANNED HELICOPTER WORLDWIDE

ABOUT US

ANAVIA focuses on one key objective: ensuring customer satisfaction through innovative and reliable aircraft. With its endurance, versatility and long range, the HT-100 stands as the best unmanned VTOL system worldwide – ready for every mission, in every deployment.

FACILITIES

Our headquarters, just a 40-minute drive from Zurich and nestled in the stunning Swiss Alpine range, offers over 30,000 square feet of office and manufacturing space. This facility accommodates up to 200 full-time employees and enables us to produce more than 100 aircraft per year.

TEAM

The company represents a unique convergence of the most experienced minds in aircraft development, united by a shared passion: to redefine the future of unmanned aircraft technology.

Our team comprises experts in composites, mechatronics, electronics, maintenance, flight testing, and software engineering, enabling us to manage the entire development cycle—from conceptualisation to final quality manufacturing—all in-house.

PRODUCT OFFERING

Our portfolio features industry-leading unmanned helicopters designed for diverse mission profiles, including surveillance and reconnaissance, inspection, cargo transport, and mapping. ANAVIA's comprehensive offering is enhanced by a wide range of sensors, accessories, services, and training programmes.

INNOVATION AND QUALITY

ANAVIA specialises in the development and manufacturing of VTOL systems weighing up to 750 kilograms. The company is renowned as a ground-breaking innovator, with the 'Made in Switzerland' seal as a mark of uncompromising quality.

EUROPEAN SUPPLY CHAIN

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ITAR FREE

All our systems and subsystems are entirely free from ITAR restrictions.

HT-100 BENEFITS

FLIGHT ENDURANCE

6 hours/600 km flight mission distance

LOW COSTS

Low operating costs with a fuel burn of only 9 litres per hour

HEAVY PAYLOAD

Up to 65 kg
120 kg MTOW

HIGH RELIABILITY

High reliability with manned-aircraft standards
All-inclusive predictive maintenance programmes

FLETTNER SYSTEM

2x main inter-meshing rotors with no tail rotor

MODULARITY

Modular payload avionics BUS for plug and play sensors

TURBINE AND GEARBOX

15 kw turbine and gearbox with circumferential lubrication and a 1,000 FH TBO.

DATA-LINK OPTIONS

Multiple digital data link options – terrestrial (up to 200 km)/ LTE/Satcom.

FLIGHT MISSION AND PAYLOAD

ISR AND INSPECTION

Aerial infrastructure inspection
Traffic investigation and surveillance
Crime and narco investigation
Border and coast control
Fire prevention
Illegal fishery and anti poaching
T-Stamp XR EO/IR

PAYLOAD SENSORS

Epsilon 180 / 140 LC / 140Z G2
Trakka TC-300
L3 Harris Wescam MX10
TK-8, PT6, P8-D, P8-DN WAMI System etc.

REMOTE AERIAL SENSING

LiDAR missions
Orthophoto and DEM
Point cloud and 3D models
Multispectral data and thermal layer
Altum PT

PAYLOAD SENSORS

Yellowscan explorer LiDAR
Riegl VUX 240
PhaseOne iXM 50 / 100
Hyper-and multispectral sensor, co-aligned-sensor
Rededge P

TACTICAL SUPPORT

COMINT / SIGINT / ELINT
Realtime combat assessment
Surveillance at sea
Anti-surface and submarine warfare
Artillery and naval fire support

PAYLOAD SENSORS

IMSI grabber system 4 band
Meta-Sensing F-Open
P-Band SAR system
VIDAR optical radar
VMS-5 pod
Epsilon 180 EO / IR
ComDart Geo-Location system

LOGISTICS

High payload capacity of 50 kg
Mission critical parts in remote and off-shore areas.
Time sensitive and medically critical supplies
Cold chain logistics
Battlefield resupply

CARGO PAYLOAD

Cargo-Box with multiple options:
Sizes and fixation layouts
Active cooling system
Skyhook with 70m rope and net
Armored / reinforced / insulated
Remote drop system

FEATURES

UNCOMPROMISING SAFETY

- Pre-programmed autorotation with automatic back-up safety eMotor.
- Flight control redundancy with four actuator.
- ADS-B mode S transponder and FLARM system.
- All airframe parachute system and ELT.
- Detect and avoid system.
- Terrain following.
- Front and bottom view FPV cameras.
- Automated RTH and GNSS loss / denied redundancy.

CAREFREE MAINTENANCE AND TRAINING

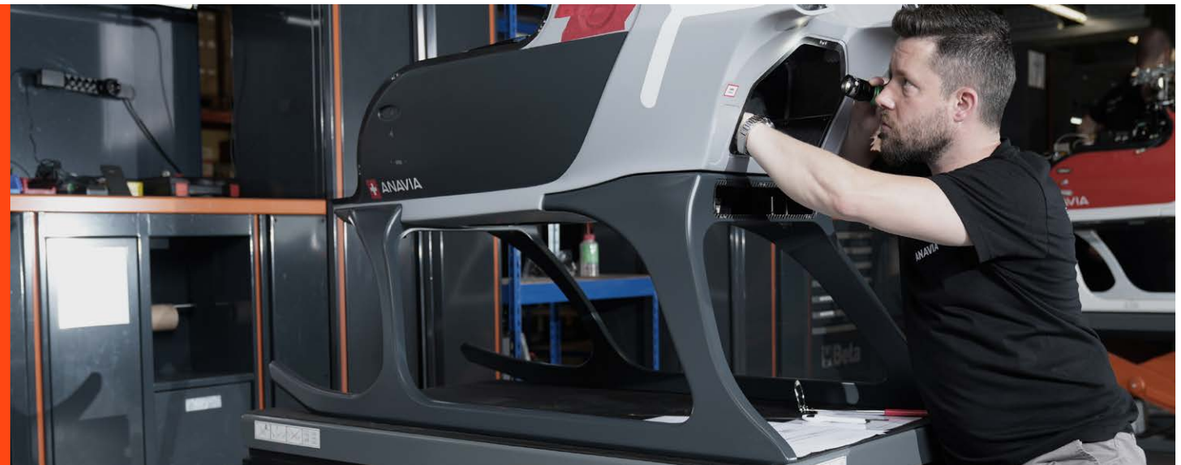
- All-inclusive maintenance plans structured for fixed price, ease of maintenance – ensures maximum uptime with parts provided before they are required.
- AMMs and all technical documentation written to a manned aircraft certification standard.
- Customer tailored flight and maintenance training and services.

EFFICIENT FLETTNER ROTOR SYSTEM

- Highest efficiency with no tail rotor compensation.
- 30% energy saved for heavy payloads or longer flight missions.
- Highest stability in demanding flight conditions.
- No mechanical parts in tail boom, removable for easy transport and deck storage.

PERFORMANCE 15 KW TURBINE ENGINE

- High-performance Swiss designed and built helicopter grade turbine engine.
- Long endurance with 9 liter per flight hour Jet-A1, JP-5, JP-8.
- Lowest vibration especially when compared to wankel / piston engines.
- Low maintenance given circumferential lubrication and high reliability with a 1,000 FH TBO.



SPECIFICATIONS

TECHNICAL DATA

Turbine	15 kw shaft turbine
Rotor	Flettner double rotor system
Typical empty weight	60kg (132 lbs)
Tank Capacity	60 litres (15.8 gallons)
Fuel Types	Jet A1 – other fuel types on demand (JP-8, JP-5)
Fuel Consumption	9 l/h
Data link type	Fully encrypted MESH IP (SATCOM and LTE on demand)
Data link range	Dependant on terrain topography and national regulations – radio and antenna configuration up to 200 km
Operating temperature	-25 °C to +55 °C, -13 °F to +131 °F
Max wind speed	45 km/h (25 kn)
Start and landing	Fully autonomous

PERFORMANCE

Payload and fuel	60 kg (132 lbs)
Max. flight time	6 hrs
Max. airspeed	120 km/h (65 kn)
Max. flight mission/ payload weight	1 hrs/51 kg
	2 hrs/43 kg
	4 hrs/28 kg
	6 hrs/14 kg
Max. take-off weight	120 kg (264 lbs)
Operating ceiling (max. density altitude)	4,000 m (13,123 ft)

DIMENSIONS

Rotor diameter	3,75 m (12,3 ft)
Dimensions L/W/H (excluding rotors)	2.82 m x 0.72 m x 1.00 m
	(9.25 ft x 2.36 ft x 3.28 ft)

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