ANAVIA

HT-750

WORLD'S LEADING HEAVY-LIFT UNMANNED HELICOPTER

ABOUT US

ANAVIA specializes in the design, development & manufacturing of vertical takeoff & landing (VTOL) systems. We have the passion of redefining the future of unmanned aircraft technology. ANAVIA strives for one grand objective: perfect mission achievement in every situation. With its endurance, cargo capacity and long range, the HT-750 stands as the world's leading heavy-lift unmanned VTOL system – 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

ANAVIA focuses on one key objective: delivering customer satisfaction through innovative and reliable aircraft. The HT-750 boasts impressive endurance, robust cargo capacity, and extensive range, standing out as the world's premier heavy-lift unmanned VTOL system—ready for any mission, anytime, anywhere.

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 with payload (incl. fuel) between 100 and 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

Our robust, all European supply chain ensures the highest of quality standards while offering stable and safe procurement processes and therefore reliable manufacturing times.

ITAR FREE

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


HT-750

HT-750 BENEFITS

Engineered for missions traditionally conducted by manned helicopters, featuring ISR-grade equipment and cargo.

HEAVY PAYLOAD

Up to 750 kg payload & fuel
1,150 MTOW

ENDURANCE

Endurance up to 15 hrs.
A ferry range of 2,500 km.
Enabled by a high-efficiency turbine.

SPEED

Up to 222 km/h. Traditional 4-blade main rotor / tail rotor configuration

PRECISION

Custom-built avionics and a vibration-reducing design for accurate, precise, and dependable operations.

MODULARITY

Modular payload avionics BUS for easy integration of plug-and-play sensors (such as gimbals and LIDAR).
Cargo modules for additional fuel tanks, troop deployment or medical evacuation.

DUAL-MODE OPERATION

Manual-assisted and fully autonomous flight capabilities

FLIGHT MISSIONS AND PAYLOADS

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

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.

T-Stamp XR EO/IRC

LOGISTICS

Light-weight carbon structure

High payload & fuel capacity of 750 kg

Mission critical parts in remote and offshore 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
- Armoured / reinforced / insulated
- Remote drop system

MEDICAL EVACUATION

Adaptable for emergency healthcare transport missions

TROOP INSERTION

Enables safe and efficient personnel deployment in complex terrains

CARGO PAYLOAD

Seating

Rappelling gear

Ballistic protection


HT-750

FEATURES

ADVANCED POWER SYSTEMS

- Electric autorotation system ensures a safe landing when turbine power is lost.
- Autonomous electric rotor power
- Gas turboshaft engine
- 280 SHP take-off power
- 255 SHP max continuous power

ROTOR EFFICIENCY

- Semi-rigid 4-blade bearing-less rotor system
- Optimised for performance and durability
- Low maintenance service costs

ONBOARD AVIONICS

- Custom-built avionics
- Safe and precise operations
- Integrated GPS/inertial navigation
- Real-time diagnostics and autopilot capabilities

PAYLOAD SUPPORT

- Manned-aviation grade sensors
- Cargo compartments
- Medical evacuation equipment
- Troop insertion

MARITIME READY

- Fully autonomous deck landing system
- Harpoon landing (NATO Grid)
- Optional emergency floatation devices

DATA COMMUNICATION

- Data link up to 200 km
- Limitless SATCOM
- Dual MIMO radios (up to 100 Mbps data rate and AES256 encryption)

SAFETY

- Redundancy (GPS; DATA-Link; DAAS; ADS-B; key sensorics, as in manned aviation)
- Anti-jamming GPS protection
- Radar altimeter

SWISS QUALITY

- Durable lightweight materials
- Reliability, performance
- Low maintenance costs
- Customer support services

SPECIFICATIONS

TECHNICAL DATA

Turbine	Gas turbo-shaft engine
Rotor	Semi-rigid 4-blade bearing-less rotor system
Typical empty weight	400 kg
Tank Capacity	900 litres (238 gallons)
Fuel Types	Jet A1 – other fuel types on demand (JP-8, JP-5)
Fuel Consumption	60 l/h
Data link type	Fully encrypted MESH IP (limitless SATCOM, dual MIMO radios with up to 100 Mbps data rate and AES256 encryption)
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	750 kg (1,654 lbs)
Max. flight time	Up to 15 hrs
Max. airspeed	222 km/h (119 kn)
Ferry distance	2,500 km
Max. take-off weight	1,150 kg (2,536 lbs)
Operating ceiling (max. density altitude):	4,000 m (13,123 ft)

DIMENSIONS

Rotor diameter	7.50 m (24.1 ft)
Dimensions L/W/H	10.0 m x 2.58 m x 3.35 m (32.8 ft x 8.49 ft x 11.00 ft)

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