




ANAVIA HT-100
The most advanced
VTOL system worldwide.



ANAVIA

FLIGHT PERFORMANCE. UNMANNED.



«AS PART OF OUR FAMILY CREST,
ST. GEORGE STANDS FOR COURAGE, VISION AND
THE MASTERY OF SEEMINGLY OVERWHELMING
CHALLENGES - ANAVIA IS THE NEXT CHAPTER
IN THIS TRADITION.»

Jon Andri Jörg, CEO ANAVIA

Every mission needs an experienced team and a leader. One that combines reliability and intelligence. One that inspires the team to reach new heights. A leader like the ANAVIA HT-100. Every detail of this unmanned helicopter is infused with a spirit of discovery. A drive that forever strives to stay ahead of times. We pursue one grand objective: perfect mission achievement in every situation. With its reliability and versatility, the ANAVIA HT-100 is the ne plus ultra of unmanned VTOL systems. For every mission. For every deployment.

ANAVIA HT-100

Economical, safe
and intelligent.



Uncompromising performance and safety attributes. Can be used around the clock in any terrain and even adverse weather conditions.



Up to 65 kg of payload. Rapid change of payloads given modular connection technology.



240 Flight minutes with 65 kg payload. Thanks to highly innovative drive technology and 60 l Fuel tank.



Ready for take-off in 15 minutes thanks to the user-friendly technology of the aircraft and ground station.



Self-maintenance during 250 flight hours given highest quality of components and innovative monitoring technology of the parameters.



Optimal price-performance ratio thanks to the low total cost of ownership per flight hour.

For demanding flight missions
Maximum reliability and performance
over long deployment times.



Range
of use



Surveying / Inspection

No matter how expansive, remote and climatically challenging the target region may be, the ANAVIA HT-100 flies its mission as the carrier of high-precision and often heavy sensor systems. The high payload compatibility allows the use of different surveying systems such as lidar scanners, multi- and hyperspectral devices and much more – around the clock, with low staffing requirements and low costs, as only the ANAVIA HT-100 can offer.



Surveillance

Its exceptional maximum flight duration and rapid readiness are just two of the sought-after characteristics of the ANAVIA HT-100 when it comes to security-related missions to protect and monitor the integrity of expansive properties, infrastructures and events. As a carrier system for a wide range of surveillance instruments, it provides all the critical information to inspection and supervisory bodies or emergency services such as the police, border and coastal guards.

Logistics

With its high payload capacity of up to 65 kg and its reach, the ANAVIA HT-100 is the ideal transport system for time-critical logistics jobs. The ANAVIA HT-100 enables fast delivery of goods to hard-to-reach areas with lower flight costs than comparable systems. Regardless of the weather, season and time of day,



Reconnaissance & Cargo (land and sea)

Unmanned reconnaissance and cargo missions of military supplies under harsh climatic conditions require a modular, all-weather capable and durable flight platform. With a flight time of more than 240 minutes, the modular payload options and the high-performance carbon airframe even under demanding maritime weather conditions, the HT-100 has exactly the properties that are «mission critical» during tactical operations.

The new benchmark

Unparalleled safety, performance
and ease of operation.

Mission control

- Easy-to-operate Flight system
- Fast and easy programming of auto-nomous missions on a user-friendly interface.
- Continuous information concerning the Flight data thanks to real-time telemetry information.
- Multifunctional and easy handling thanks to the ergonomic and intuitive arrangement of the controls.



Ease of operation

- The system is suitable for both stationary and mobile use.
- Rapid readiness thanks to the intelligent and intuitive design of the hardware and software.
- Excellent mobility with a secure transport system.

ANAVIA

HT-100

Autonomy

- Easy to fly thanks to the latest generation automatic flight control system.
- Automatic and fully autonomous return flight in case of lost radio contact with ground station.
- Crystal clear radio communication between the crew given with advanced radio headsets.

Technology

- High-performance lightweight carbon construction for cell and rotor blades.
- Flettner double rotor system enables high payloads and flight stability.
- Reliable, powerful back-up electric drive as an emergency system.
- Intelligent redundancy system for uncompromising safety.
- Low vibration thanks to the 15 kW shaft turbine.
- Low-maintenance, closed, high-tech gearbox.
- Proven, state-of-the-art hardware and software.

Modular concept

- Simple and fast payload change for a wide variety of sensors and transport systems.
- Custom solutions possible thanks to our broad expertise.
- Payload control via a secure and reliable data link.



Gimbal



LiDAR & Aerial cameras



Airborne Magnetometer



Transport system
Up to 50 kg

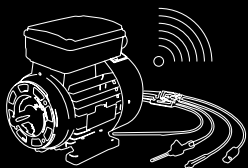


Other
On request

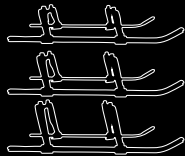
Optional accessories

Because every flight needs the right equipment.

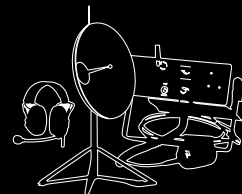
Every flight mission has its own specific requirements. A high degree of individualization – particularly for payload integration – is therefore often necessary. With its highly modular design and compatibility, the concept of the HT-100 enables the implementation of even unusual requirements. The external appearance can also be created according to your corporate design.



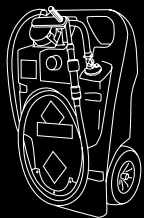
Exceptional safety provided by backup electric motor and safety sensors. Long-range visibility given transponder and FLARM.



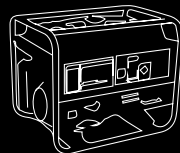
Skids in 3 standard heights as well as customized landing gear with optional connection of sensors.



Antennas, tripods, team radio headsets for secure communication and data transmission.



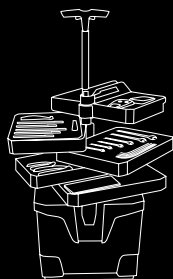
100 l tank vehicle for optimal supply of the HT-100.



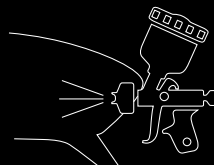
Power generator to ensure adequate power for longer missions.



High-tech climate and secure transport case for safe transport and dry storage in all climatic conditions.



Toolkit for executing all maintenance and servicing work.



Custom painting with individual color scheme.



AMBITIOUS GOALS ARE ACCOMPLISHED WITH A
CLEAR MIND AND PRECISE ENGINEERING.

Manfred Aigner, Engineer



Training & Service

Operation and maintenance

Because professional users need to fly safe and successful missions.



Training

The operation and maintenance of the HT-100 requires sound theoretical and practical knowledge, which ANAVIA conscientiously teaches and tests.

Contents include understanding of all technical components and their interactions, handling and piloting the helicopter, programming and executing autonomous flights, performing pre-flight and post-flight checks and periodic self-maintenance.

All acquired skills are safety-relevant requirements for a successful flight mission and are therefore validated by ANAVIA through certificates.

Customer service

In order to guarantee our customers maximum operational readiness of their HT-100, our technical customer service is available around the clock.

Our "Flying Doctors" take care of inspections and repairs all over the world and handle the procurement of spare parts, whose rapid availability is guaranteed at all times thanks to our in-house production and safety stock.

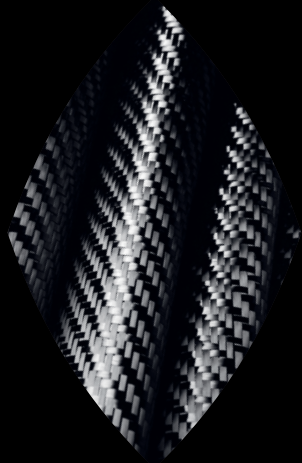




Heritage & Expertise

Superior expertise

Over 150 years of know-how and experience in high-tech engineering.



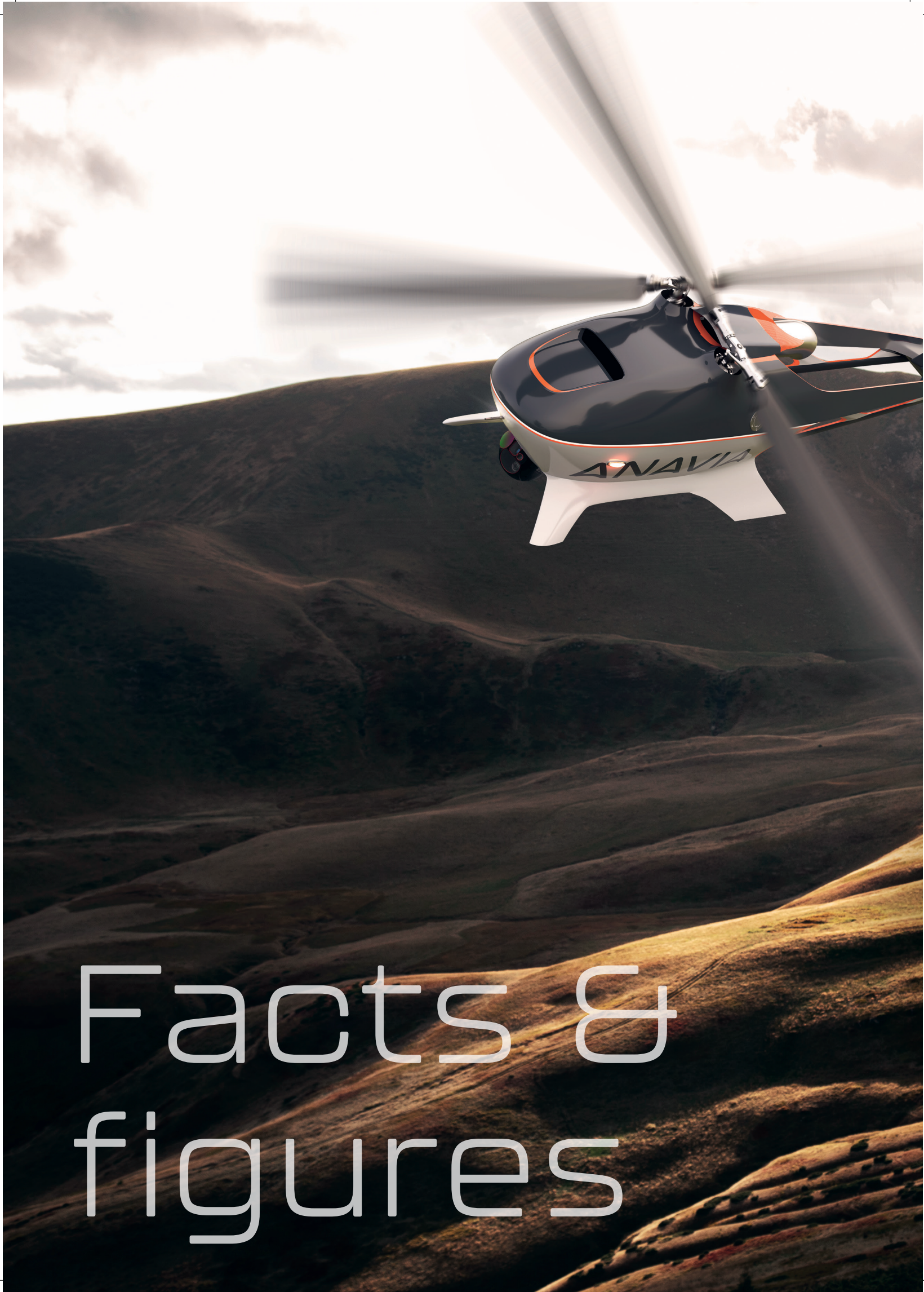
Lightweight construction

The development, material selection and technology of the HT-100 combines innovations that have been applied and tested over many years of safe aerospace and innovative motorsport applications. ANAVIA was established in 2019 as a business unit of the CONNOVA Group, a leading global developer and manufacturer of high-tech carbon composite products for the aerospace industry and motor racing sector.

CONNOVA's 30 years of experience in innovative composite and lightweight construction technology is in the DNA of every ANAVIA helicopter. More information: www.connova.com

Customization

With engineering expertise, innovative acumen and many years of experience in high-tech, lightweight carbon construction, we can offer our customers any kind of special solution around the HT-100. Lightness and durability are important efficiency and safety factors, such as custom payload connections.



Facts & figures

Compelling

Due to innovative technology and high-performance functionality.



Performance

Max. payload	65 kg (143 lbs) (fuel and payload)
Max. take-off weight	120 kg (264 lbs)
Max. flight time	240 min.
Max. flight distance	400 km (216 nm)
Max. service ceiling	10000 Ft MSL
Max. airspeed	120 km/h (65 kn)

Technical data


Turbine	15 kW shaft turbine
Rotor	Flettner double rotor system
Empty weight	55 kg (121 lbs)
Tank capacity	60 liters (15.8 gallons)
Fuel consumption	13 l/h (3.43 gallons/h)
Electrical power	1000 W @ 24 V DC
Data link range	up to 200 km (108 nm) (mil encrypted)
Operating temperature	-25 °C to +60 °C -13 °F to +140 °F
Wind at take-off / landing	up to 56 km/h (30 kn)
Start and landing	Fully autonomous

Dimensions

Rotor diameter	2 x 3.36 m (2 x 132.3")
Dimensions L/W/H	2.65 m x 0.56 m x 0.89 m (78.7" x 22.0" x 35.0")

Safety

- Safety motor:
Electric backup motor – redundant components.
- Autorotation:
Programmed auto-rotation when the RPM drops.
- Flight control:
Redundantly designed with four actuators.
- Transponder/FLARM®:
The integration of reliable and proven systems reduces the risk of collision and thus increases the safety of other airspace users.
- Lights:
Due to the arrangement of the position lights, the aircraft is visible from a long distance.



THE BEGINNING OF A SUCCESSFUL MISSION:
+41 56 619 16 80 - INFO@ANAVIA.EU

Daniel Krättli,
Business Developer ANAVIA





ANAVIA

FLIGHT PERFORMANCE. UNMANNED.

www.anavia.eu

Anavia AG | a CONNOVA Company | Durisolstrasse 8 | CH-5612 Villmergen
+41 56 619 16 80 | info@anavia.eu

