

SKY FORWARD

STRATEGIC PARTNERS

ABOUT THE COMPANY

Founded in 2022

- Developing highly capable UAVs for the military purpose
- Scientific research approach in priduction
- Manufacture system can be easily constructed anywhere within 2 months
- Engineering and constructing modifications
- Decentralized productions model
- Pilot school
- Production area of more than 1200 m²

Pilot Design and Testing Production Procurement Finance school department development and supply department department department chain department STRUCTURE

MoD TRUST US

The Chaklun drone has been officially approved for operation by the Ministry of Defense and is being actively investigated by the AFU from 2022.



NATO TRUST US

Our unmanned aerial vehicles (uav's) have a unique **NATO** codification number, which confirms their high technical performance and compliance with international standards.



HISTORY



Development of infrastructures of aeromodeling sport

Serial production line creation



2018

2020

2022

2024

Establishment of the federation of model aircraft sports in ukraine



LLC RC Directipon foundation



Scaling up - modification integration



ROAD MAP

Production decentralization and scaling

2027

2028

Build an

international

reputation

2030

Operate in 5+ international markets

2025

2026

Foreign market integration

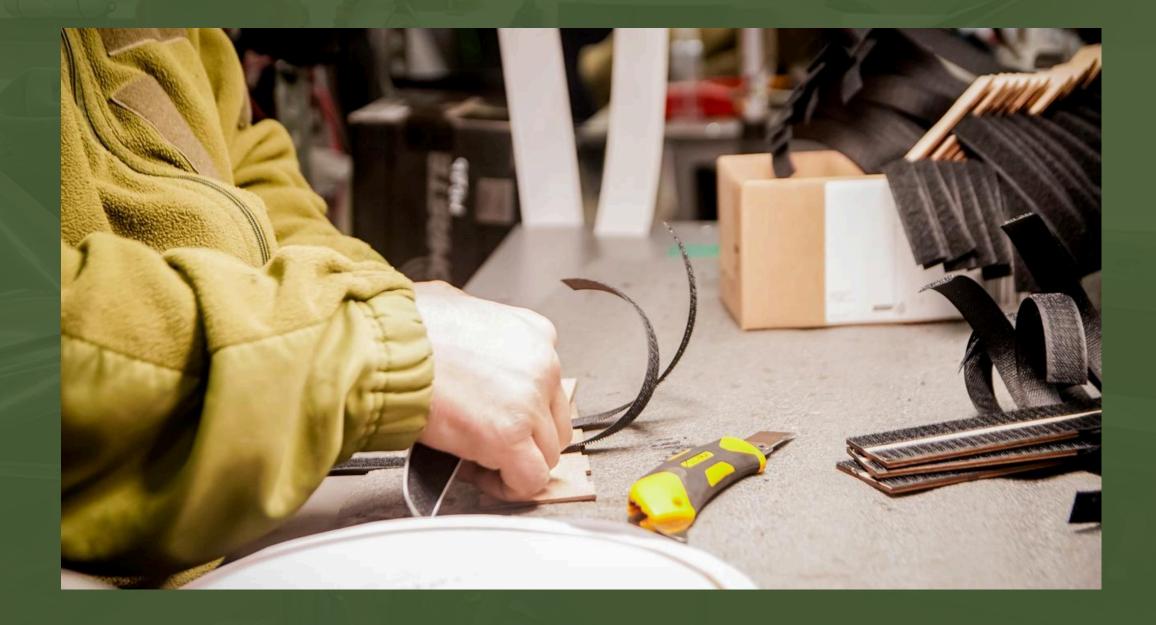
Advanced R&D initiatives

MANUFACTURING

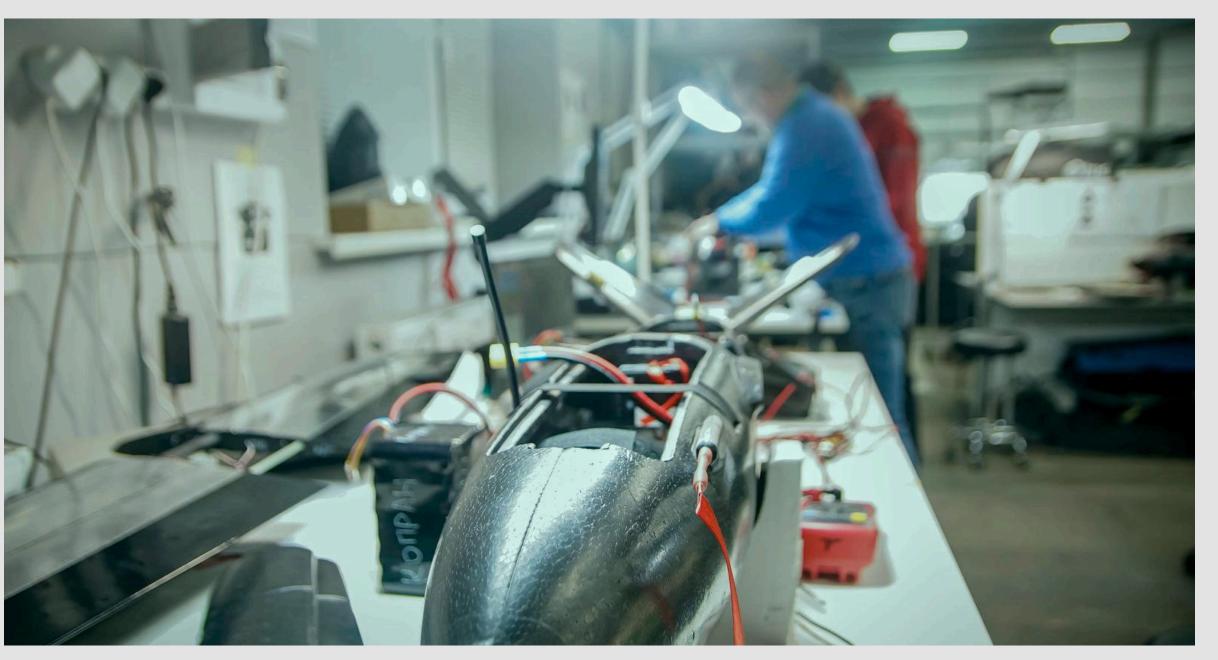
- The production capacity is easily scalable to requirement quantity based on the contract agreement
- We have more than 1200 m²

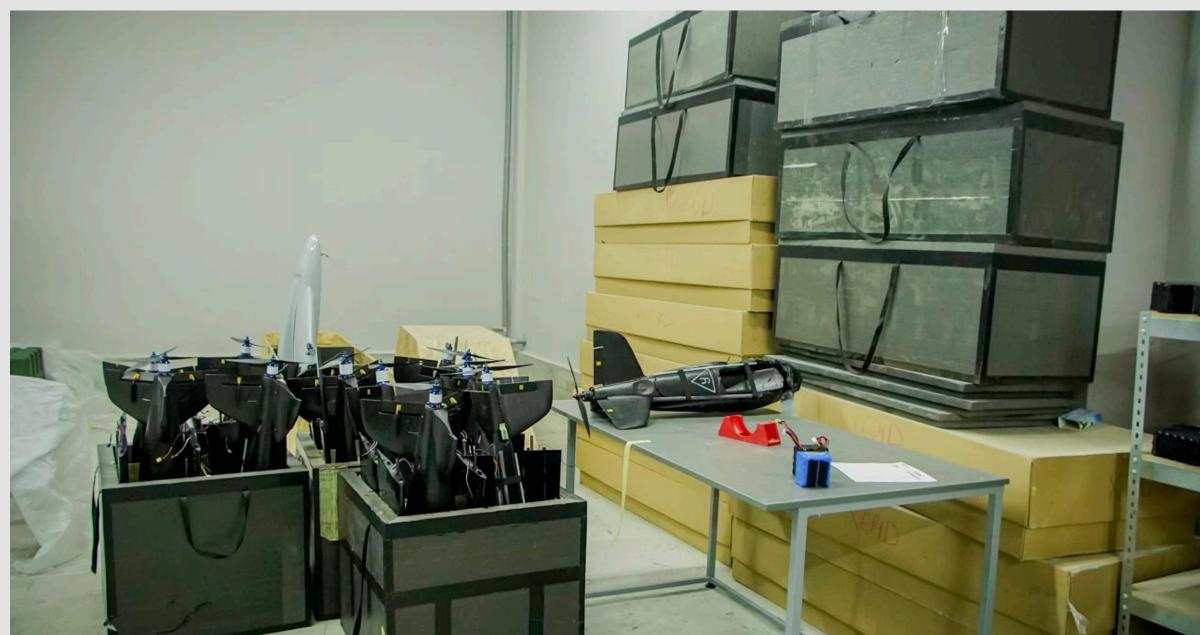
We have launched manufacture system in that way that it may be easily constructed in any place in the world within 2 months

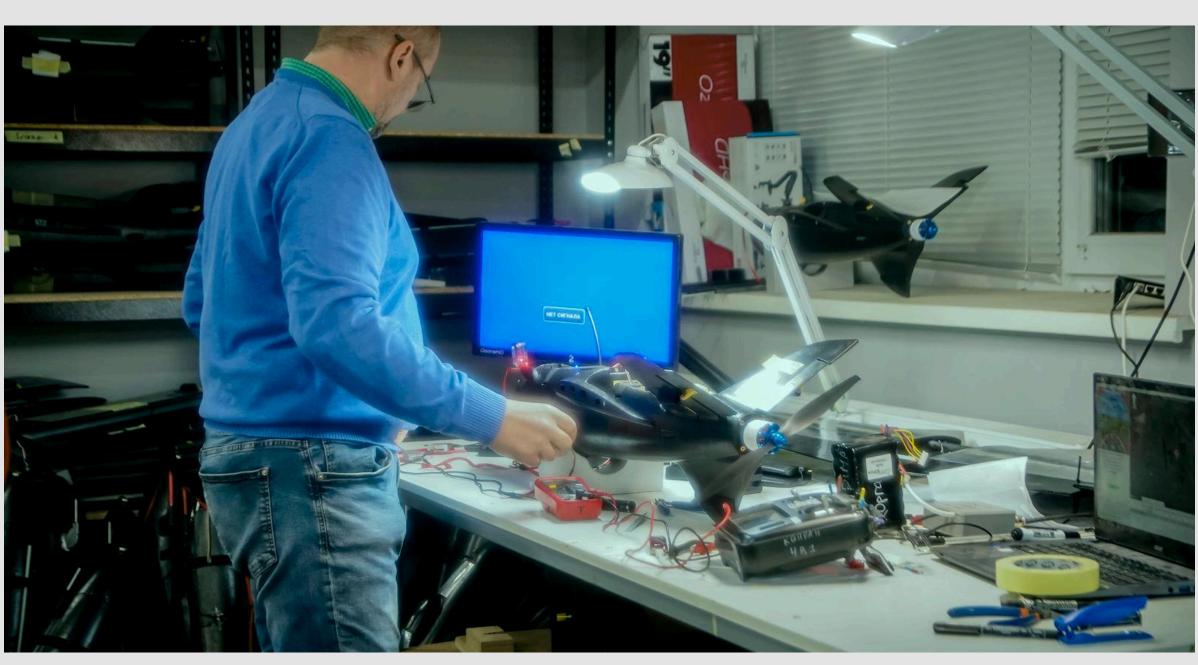












QUALITY CONTROL

INPUT CONTROL

PROCESSING

OUTPUT CONTROL

- Supplier Certification
- Material Inspection
- Batch Testing

- Frame Construction
- Electronics Installation
- Software Integration

- Functional Testing
- Quality Assurance
- Standart Check







QUALITY CONTROL

Each aircraft undergoes an overflight procedure by an expert team of pilots

- Functional Testing
- Safety And Fail-Safe Testing
- Aerodynamic Testing
- Enviremental Stress Control
- Communication And Software Testing





SUPPLY CHAIN



- ► Electronics (controller, speed sensor, GPS)
- Servo drives
- Video communication (video transmitter, camera video receiver)
- Laptop
- Control panel



- Hull (fuselage, tubes, components)
- Control and telemetry system



Propulsion part (motor, regulator, propeller)

Other components of the ground station (catapult, telescopic masts, wires) are made by our company from materials available on the local market.

UAV'S MODIFICATION

Improving FHSS communication

Autonomy and ai integration

Increased range

Increased payload capacity

Jet engines intergation

Systems development and refinement

Stealth features integrations

Aerodynamics improvements

Development of reusable airplanes

CHAKLUN

A small reconnaissance drone built in an airplane configuration. The aircraft can perform reconnaissance, patrol, and search operations. due to its small size and radio-transparent hull material, the aircraft is almost invisible on radar, allowing it to pass unnoticed deep behind enemy lines.



The flight can be performed:

- in automatic mode along the specified route
- in a controlled mode, which allows the pilot to change the flight course if necessary



Photo/video recording of the terrain with coordinates and recording to the onboard storage device.



Return to the takeoff point:

- return home system in case of signal blocking
- inertial redundant navigation system



UAV composition

- Unmanned aerial vehicle 2 units
- Ground station 1 unit
- Launching device



LENGTH OF THE AIRFRAME 960 mm



FLIGHT DURATION up to 2 hours



MAXIMUM FLIGHT ALTITUDE up to 3000 m



WINGSPAN 1390 mm



MAXIMUM FLIGHT SPEED
125 km/h



ENGINE TYPEelectric motor powered by battery



TAKEOFF WEIGHT 2.8±0.5 kg



CRUISE SPEED 80 km/h



CONTROL automatic/remote



MAXIMUM WIND SPEED up to 12 m/s



COMMUNICATION RANGE 75 km



OPERATING TEMPERATURE -15...+30 °C

CHAKLUN-K

Over 2 000 successful neutralization of enemy targets

The UAV complex "Chaklun-K" is a mobile strike system designed for transporting payloads (up to 1 kg) to pre-identified ground or moving air targets. the system is highly versatile, allowing the uav to perform tasks both on the ground and in the air, with different technical specifications. its advanced control and telemetry transmission system ensures a range of up to 30 km, while a secure communication channel allows it to maintain control even in areas affected by enemy electronic warfare (EW) systems.

AVAILABLE IN TWO MODIFICATIONS

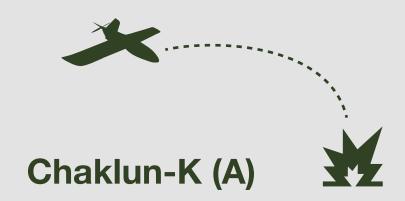


Day









Air-to-air operations



Chaklun-K (M)

UAV composition

- Unmanned aerial vehicle 6 units
- Ground station 1 unit
- Launching device





LENGTH OF THE AIRFRAME960 mm



FLIGHT DURATION
1 h ±10 m



MAXIMUM FLIGHT ALTITUDE up to 4000 m



WINGSPAN 1300 mm



MAXIMUM FLIGHT SPEED 120-175 km/h



OPERATING FLIGHT HEIGHT 300/4000 m



TAKEOFF WEIGHT 4,3±0,1 kg



CRUISE SPEED 80 km/h



MAXIMUM WIND SPEED up to 12 m/s



ENGINE TYPEelectric motor powered
by battery



LAUNCH METHOD
from the launch device



OPERATING TEMPERATURE RANGE -15...+30 °C



MAXIMUM RANGE IN CONTROLLED MODE at least 50 km



LANDING METHOD
free descent (aircraft-type landing)



PAYLOAD must not exceed 1.5/1 kg



UAV CREW
3 persons



RADAR CREW (RLS)
-/3 persons

CHAKLUN 2.0

The "Chaklun-2.0" UAV is a multifunctional mobile complex designed for aerial visual reconnaissance. Thanks to the unmanned aerial vehicles that make up the complex, it is possible to perform reconnaissance, patrol, correction and search operations. due to their small size and radio-transparent hull material, the aircraft are almost invisible on radar, allowing them to pass unnoticed deep behind enemy lines.



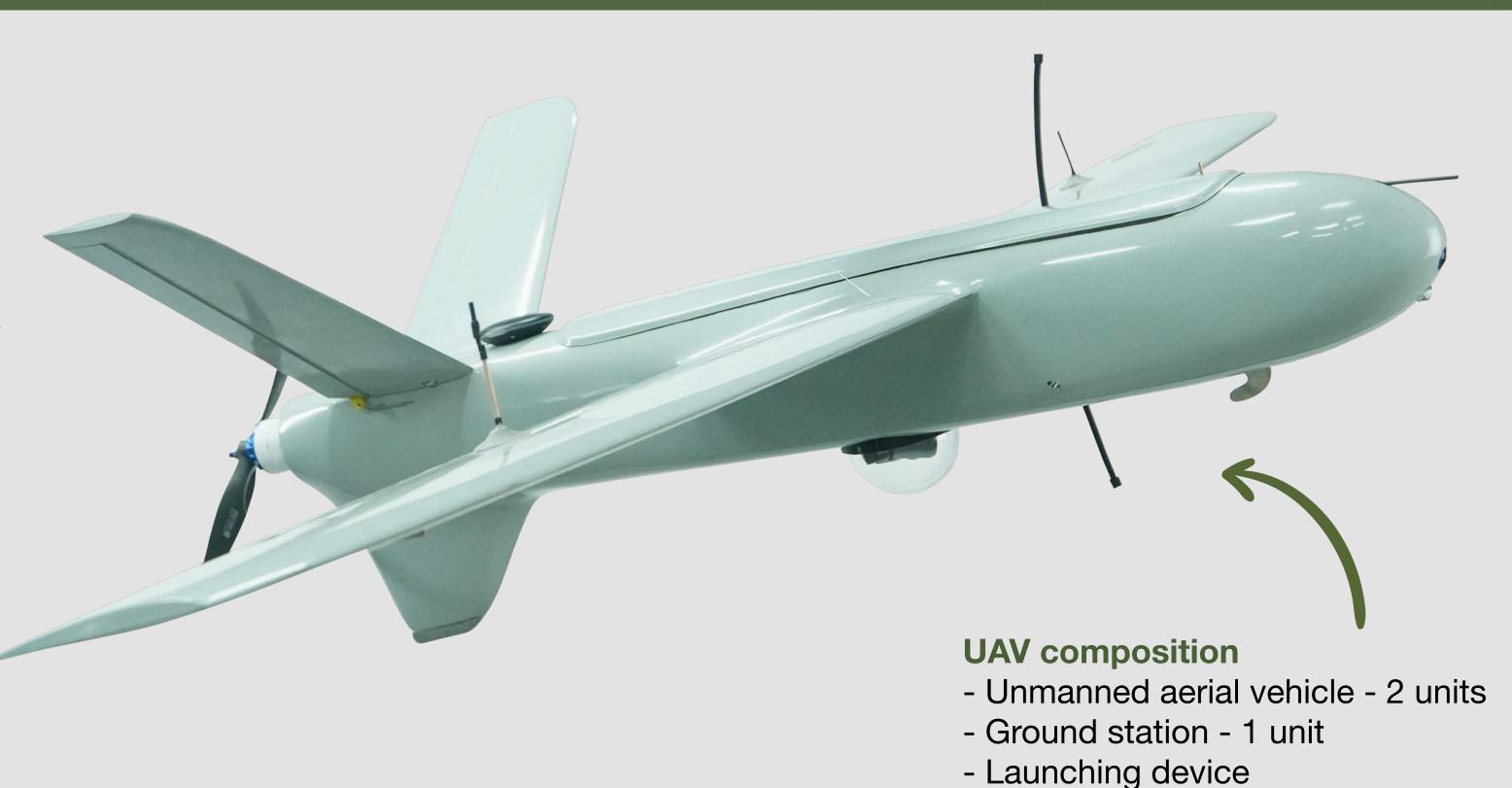
The ChaklunLRS software is a hardware and software complex developed by our programmers in cooperation with the military, which allows full control and management of the uav and its autopilot.



The UAV communication system operates at the expense of pseudo-random frequency hopping (FHSS) in the range of 410-490 mhz, which allows to maintain control in the area of enemy electronic warfare. The maximum communication distance is 75 km.



Video communication is provided through the use of in-house manufactured antennas that are precisely tuned in frequency, which ensures a stable signal strength and data transmission **up to 55-65 km.** the main frequencies are in the range of 1.2 - 1.3 mhz.





LENGTH OF THE AIRFRAME
1000 mm



FLIGHT DURATION
up to 3 hours



MAXIMUM FLIGHT ALTITUDE up to 4000 m



WINGSPAN 1800 mm



MAXIMUM WIND SPEED
150 km/h



ENGINE TYPEelectric motor powered by battery



TAKEOFF WEIGHT4,5 kg



CRUISE SPEED 80 km/h



CONTROLautomatic/remote



MAXIMUM WIND SPEED up to 12 m/s



OPERATING FLIGHT ALTITUDE
500 m



OPERATING TEMPERATURE
-15...+30 °C

INTERCEPTOR

The "Interceptor" UAV system is designed exclusively for neutralizing airborne targets (enemy reconnaissance and strike UAVs). The aircraft's design allows it to stay airborne for more than 2 hours (in patrol mode) and to pursue targets at maximum speeds of 250 km/h. It is equipped with two cameras, providing a wide field of view, and can also be fitted with a thermal imaging camera for night operations.

An additional feature is an automatic target acquisition system (with an accuracy of 20-30 meters), with final guidance and target engagement carried out visually by the pilot. the advanced control and telemetry system provides a range of up to 75 km. Its secure communication channel allows it to maintain control in areas affected by enemy electronic warfare (EW).

The UAV is equipped with analog video transmitters that can be easily switched during operation, making it undetectable by electronic intelligence systems and preventing operator tracking. if no targets are detected, the aircraft can be safely returned and reused after replacing the battery.

The effectiveness of the uav increases to 100% when operated in tandem with the radar statrion.

MODIFICATIONS



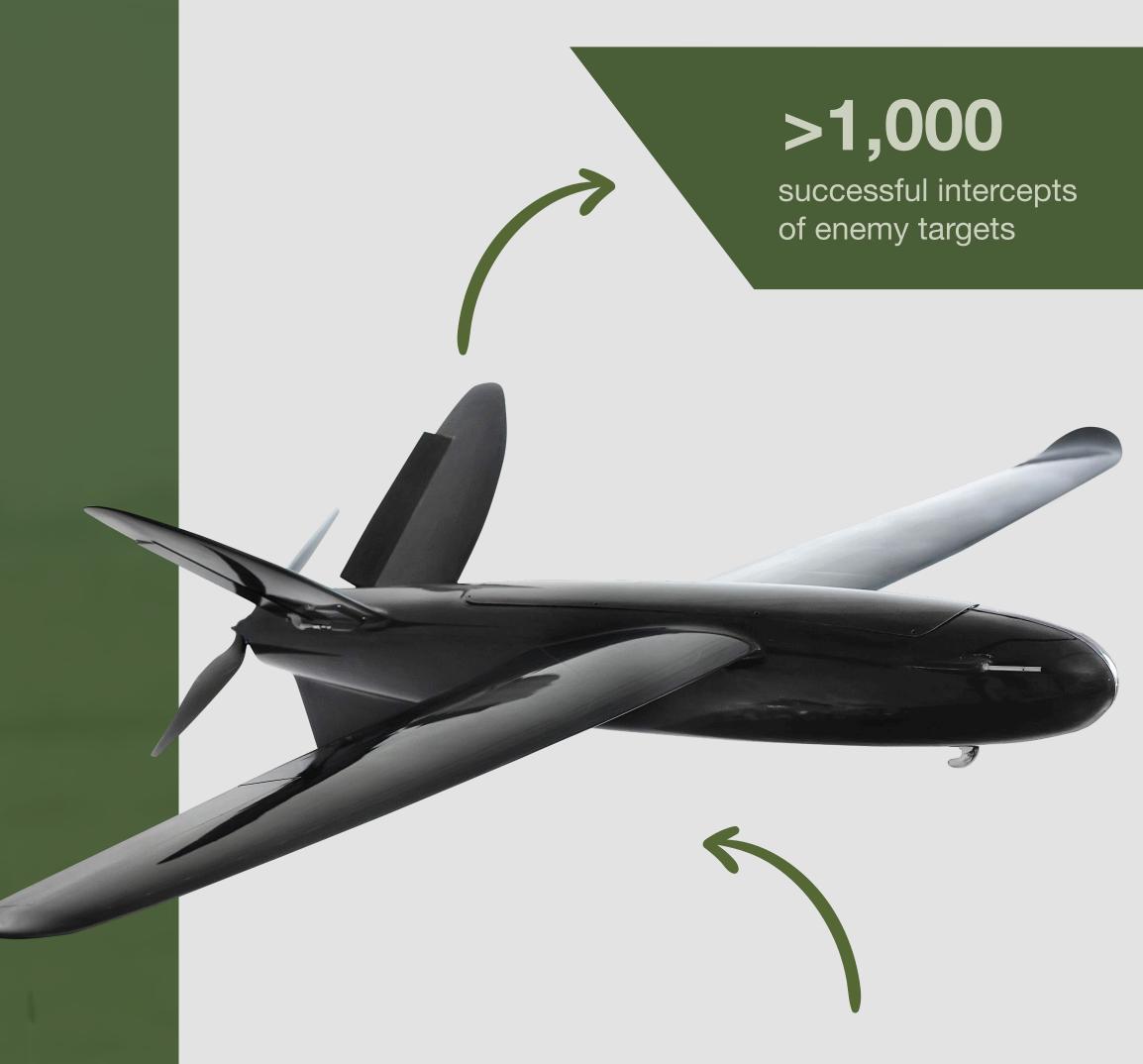
Day





Night

Shot



UAV composition

- Unmanned aerial vehicle 10 units
- Ground station 1 unit
- Launching device



LENGTH OF THE AIRFRAME

1000 ± 6 mm



FLIGHT DURATION from 20 to 120 m



MAXIMUM FLIGHT ALTITUDE up to 6500 m



WINGSPAN 1706 ± 6 mm



MAXIMUM FLIGHT SPEED 250 km/h



LANDING METHOD launching device



TAKEOFF WEIGHT 6 kg



CRUISE SPEED 90 km/h



PAYLOAD up to 800 g



MAXIMUM WIND SPEED up to 12 m/s



MAXIMUM RANGE up to 30 km



OPERATING TEMPERATURE -10...+30 °C





LENGTH OF THE AIRFRAME 2200 mm



FLIGHT DURATION up to 6 hours



MAXIMUM FLIGHT ALTITUDE up to 3000 m



WINGSPAN 3100 mm



MAXIMUM FLIGHT SPEED
155 km/h



ENGINE TYPE internal combustion engine



TAKEOFF WEIGHT uo to 45 kg



CRUISE SPEED

130 km/h



PAYLOAD 10-15 kg



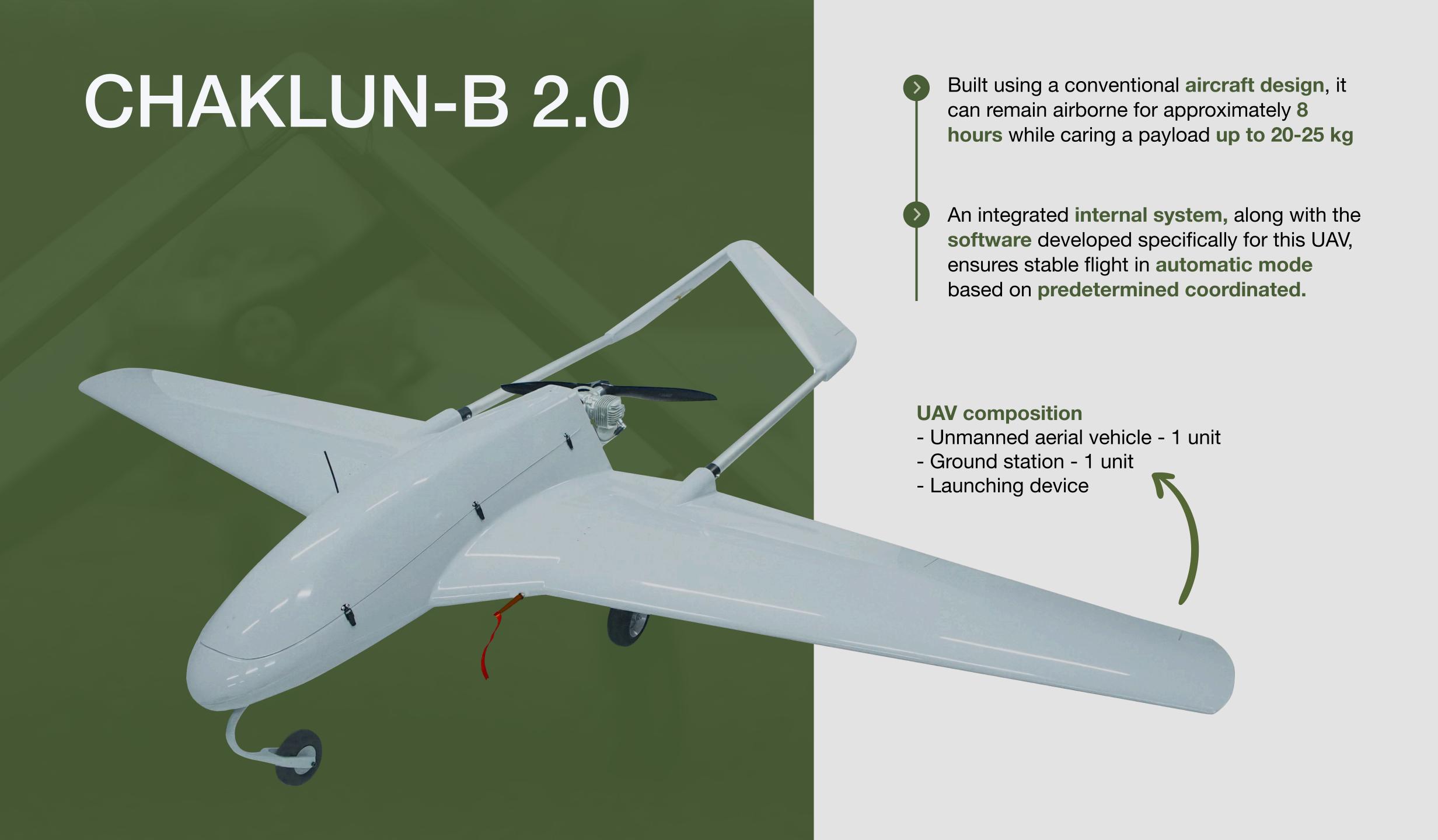
MAXIMUM WIND SPEED up to 12 m/s



MAXIMUM RANGE 600 km



OPERATING TEMPERATURE -10...+30 °C





LENGTH OF THE AIRFRAME 2500 mm



FLIGHT DURATION up to 8 hours



MAXIMUM FLIGHT ALTITUDE up to 3000 m



WINGSPAN 3500 mm



MAXIMUM FLIGHT SPEED
155 km/h



ENGINE TYPE internal combustion engine



TAKEOFF WEIGHT uo to 65 kg



CRUISE SPEED
130 km/h



PAYLOAD 20-25 kg



MAXIMUM WIND SPEED up to 12 m/s



MAXIMUM RANGE 900 km



OPERATING TEMPERATURE -10...+30 °C