



UAV BH6
UAV BH20
UAV BH25

TECHNICAL CHARACTERISTICS OF THE "VACA" UAV COMPLEX:

- Service ceiling:** ■ up to **2200 m**
- Operational range:** ■ up to **125 km**
- Payload options:** ■ from **6 to 25 kg**
- Launch method:** ■ **pneumatic catapult**
- Landing:** ■ **automatic/semi-automatic, parachute**
- The crew:** ■ **4 persons (2 pilots, 2 technicians)**
- Setup time:** ■ **25 min**
- Folding time:** ■ **7 min**

VACA is a company, tactical, automated, cargo UAV complex, used for delivering cargo and/or conducting attack operations in the area of responsibility of a company or battalion. It is used for:

- delivering cargo to the friendly units;
- delivering cargo to the Resistance forces on the occupied territories;
- delivering and spreading PSYOPS materials (leaflets);
- inflicting fire damage against personnel, AFV, or fortifications.

Cargos from **5 to 25 kg** per flight

- standard ammunition
- PTAB 2.5 M - cumulative bomb - 2,2 kg
- F-1 grenade
- 60 mm mine
- 82 mm mine
- 120 mm mine
- self-made explosive materials
- fragmentation - 0,8 kg,
- high-explosive fragmentation - 2,2 kg,
- FMR - 5,5 kg thermobaric,
- FMRB - 10,4 kg thermobaric,
- FMRBA - 10,4 kg high-explosive fragmentation,
- FMRB - 14,5 kg thermobaric

THE CONCEPT OF THE "VACA" UAV WING



- **1 attack UAV BH25,**
- up to 30 kg payload (14,4 kg as for ammo);
- 125 km operational range
- a reinforced battery 78 Ampere (14 kg weight) enables the expansion of the operational range up to 250 km

- **2 attack UAVs BH20,**
- 12 kg payload (10,4 kg as for ammo);
- 50 km operational range

Such **UAV wing** provides the following autonomous capabilities:

- Reconnaissance ■ Adjustment ■ Target designation ■ Control retransmission
- Hitting of the target in the range of 50 - 250 km
- Management of the aircraft group - to enable coordination of the targets' hitting

ADDITIONAL EQUIPMENT:

- The surveillance equipment - **thermal camera**
- **Radar-detector** for the automatic guidance of the UAV "VACA" on the EW and SAM exposure (currently under development)
- **Lidar/Sonar**
- **Airspeed sensor (Pito)** with heating - for conduction of the flights at sub-zero temperatures, in icing conditions
- **Ballistic calculator**
- **Barometer**
- **Magnetometer**
- **2 GPS modules** - Drotek, Septentrio
- All models are prepared for launch using **jet starter** (developed and launched in a series)

