

UNMANNED AERIAL VEHICLE

SKYSPOTTER

152



APPLICATIONS

CIVIL APPLICATIONS

- ▶ Monitoring of power lines, pipelines, oil and gas fields, critical infrastructure (dams, bridges, railways, highways...)
- ▶ Precision agriculture - crop monitoring, phenotyping, spraying
- ▶ 2D and 3D mapping (aerial photogrammetry, laser scanning).
- ▶ Geological surveys evaluating underground deposits of raw materials

RESCUE AND EMERGENCY APPLICATIONS

- ▶ Monitoring of natural and industrial environmental disasters (radiation, biological and chemical hazards)
- ▶ Prevention and monitoring of forest fires - active deployment
- ▶ Search and rescue missions, delivery of medical supplies (50 kg SKYBOX container)

DEFENSE AND SECURITY APPLICATIONS

- ▶ Intelligence, surveillance and reconnaissance, chemical, biological, radiation and nuclear reconnaissance, electronic warfare, logistics (drone delivery), border/coastal protection - patrolling
- ▶ ISR - border/coastal protection and surveillance (radar, EO/IR)
- ▶ EW - radio surveillance, communications jamming (GNSS, COM, SAT)
- ▶ CBRN - monitoring chemical accidents/attacks
- ▶ Radiation measurement and monitoring - identification of radiation source
- ▶ Telecommunication link (COM bridge) - signal coverage of the area of operation
- ▶ EOD - explosive ordnance disposal robot (delivery and remote control)
- ▶ Transportation and delivery - SKYBOX 50 kg/110 lbs. cargo drop

Monitoring Beyond Limits

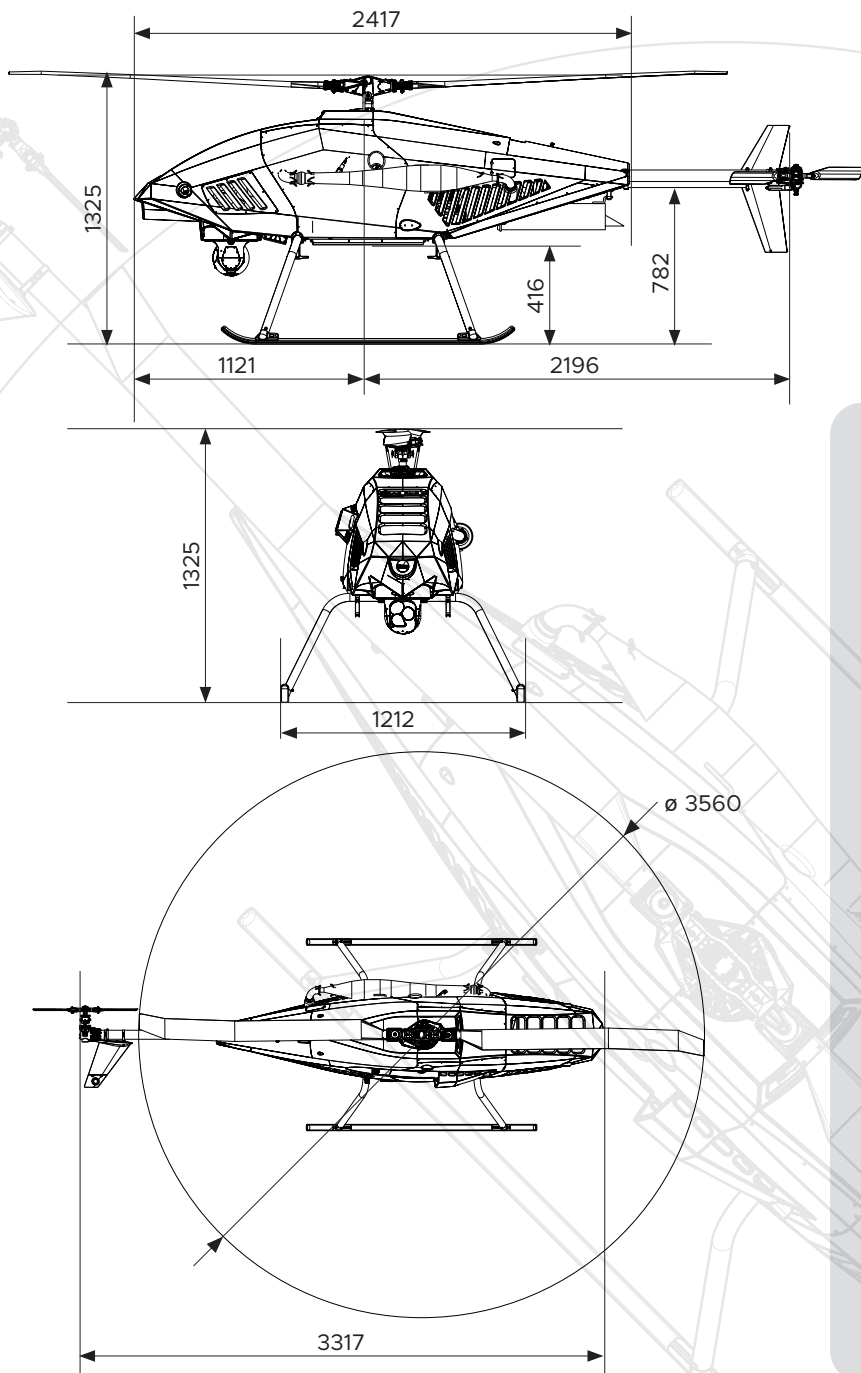


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Technical Data

- **Autonomy:** Autonomous takeoff, waypoint navigation and landing
- **Navigation:** Redundant INS (Inertial Navigation System) and GPS
- **Empty weight:** 140 kg
- **Max. take-off weight (MTOW):** 210 kg
- **Dimensions:** Diameter of main rotor 3,560 m, length 3,317 m, height 1,325 m, width 1,212 m
- **Typical payload capacity:** 50 kg
- **Operating temperature:** -20 °C to +44 °C
- **Maximum wind:** 10 m/s
- **Rate of climb:** 5 m/s

Performance

- **Max. speed:** 100 km/h
- **Max. altitude:** 2000 m
- **Flight time:** up to 4 hours (without payload)
- **Fuel consumption:** 13 l/h

Power plant

- **Engine type:** Custom-designed two-stroke engine, 70 HP
- **Fuel tank:** 55 l

Supplied Systems



Complex A

Unmanned helicopter SkySpotter 152	2 pcs
Transport container - TC	1 pc
Ground Control Station - GCS	1 pc
EO/IR gimbal	2 pcs
Datalink	1 set
Software equipment	1 set
Technical and service documentation	1 set
Training	4 weeks



Complex B

Unmanned helicopter SkySpotter 152	1 pc
Ground Control Station (GCS) combined with a transport vehicle	1 pc
EO/IR gimbal	1 pc
Datalink	1 set
Software equipment	1 set
Technical and service documentation	1 set
Training	4 weeks



Complex C

Unmanned helicopter SkySpotter 152	1 pc
Portable Ground Control Station	1 pc
EO/IR gimbal	1 pc
Antenna	1 pc
Datalink	1 set
Software equipment	1 set
Technical and service documentation	1 set
Training	4 weeks