

Aerocopter AK1-3



Multi-purpose two-seater light helicopter **Aerocopter AK1-3**
is created for comfortable, fast and safety travel

It is intended for:

- ◆ Pilot training;
- ◆ Private flights and active rest;
- ◆ Sports, tourist and advertising purposes;
- ◆ Patrol over motorways, territories and facilities (pipelines, electric mains);
- ◆ Express mail and small freights delivery;
- ◆ Treatment of agricultural areas.

The flight and technical characteristics of the helicopter are at level of world leaders in the industry.

Aerocopter AK1-3 has the following advantages in its class:

- **Excellent controllability, flight stability, manoeuvrability**, low vibrations and noise level due to an ideal design balance and a three-blade rotor;
- **Efficient performance and aerodrome service independence** due to use of A-95 gasoline and small overall dimensions.

Aerocopter AK1-3 is operated in 17 countries of the world: Austria, Australia, Belarus, Belgium, Georgia, Italy, Canada, China, Korea, the United Arab Emirates, Russia, Slovakia, Sudan, Uzbekistan, Ukraine, France, the Republic of South Africa.

Aerocopter AK1-3 is chosen by the Kremenchug Flying College of the National Space University of Ukraine for basic pilot training.



THE DESIGN DESCRIPTION

Light 2-seater helicopter "Aerocopter" AK1-3 is designed by DB "Aerocopter" (Ukraine) in cooperation with ASTC Antonov, OJSC Motor-Sich and the Kharkov Aviation Institute.

Aerocopter AK1-3 meets requirements of airworthiness standards for rotary-wing vehicles of normal class AP-27.

The helicopter has a single-rotor configuration with a tail rotor. The cabin has width 1200 mm at level of shoulders and provides free accommodation of two persons. Hot molding polycarbonates are used in the cabin design to ensure wide visibility and comfort. The cabin is equipped by a heating and ventilation system with use of defogging air.

The helicopter is equipped with the reciprocating liquid-cooled engine EJ-25 powered by gasoline with an octane rating no less 95.

The rotor is made of composite materials.

The helicopter flight and navigation equipment allows to carry out flights in VFR weather conditions, day-time, according to visual flight rules over the temperatures range -18 to $+35^{\circ}\text{C}$.

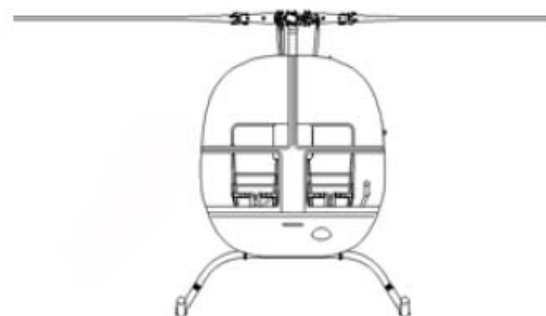
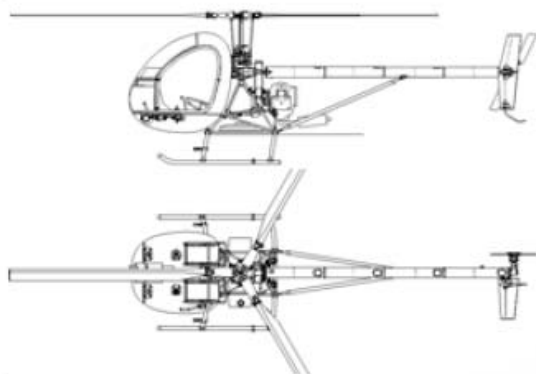
The minimum working platform area is 7×8 m

Periodic maintenance checks for helicopter Aerocopter AK1-3 are executed each 50, 100, 500, 1000 flight hours of the helicopter.

DB Aerocopter was founded in 1999. For 12 years the complete production cycle including development, manufacture and maintenance of aircraft engineering is created.

The company owns all necessary certificates.

Sizes:	
Length of the helicopter, both rotors turning, m	8.096
Helicopter height, m	2.20
The maximum fuselage width, m	1.35
Main rotor diameter, m	6.84



FLIGHT AND TECHNICAL CHARACTERISTICS OF AEROCOPTER AK1-3

Crew, persons	1-2
Weight, kg	
Empty weight	398
Normal take-off weight	650
Maximum flight speed near ground, km/h	186
Flight cruising speed near the ground, km/h	160
Hover ceiling out of ground effect, m	1340
Service ceiling, m	4800
Service ceiling (oxygen limit), m	3000
Length of the helicopter taking into account blades, m	8.09
Main rotor diameter, m	6.84
Tail rotor diameter, m	1.28
Gliding range from 1000 m altitude, m	3000-3500
Engine —Subaru EJ-25, h.p./kW	156/115
Fuel consumption rate (AI-95)	
Cruise fuel consumption, l/h	28-32
Tank capacity, l	72



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