



SkyCruiser SC-200
UAV autogyro



HA-XSC

HA-XSB

The autogyro, also known as a gyrocopter, is considered one of the safest types of aircraft. Its safety and stability are primarily due to its freely rotating rotor, which is not directly powered by the engine. These unique flight characteristics and aerodynamic properties allow it to operate reliably even under changing environmental conditions.

Autogyros are relatively insensitive to wind, thermal activity, and turbulence, which makes them popular among pilots and operators worldwide. Their efficient and economical operation has long been recognized by experts in many countries, and they are widely used for military, security, rescue, and various unmanned applications.

They are typically classified as ultralight aircraft (with a maximum take-off weight of up to 560 kg). Most models are single- or two-seaters, but in recent years, unmanned gyrocopters (UAVs) have become increasingly common.

By combining the advantages of both helicopters and fixed-wing aircraft, autogyros offer a highly versatile platform.

Advantages:

- Short take-off way
- Low stall speed
- Not sensitive to external factors
- Low operating costs
- Wide use of range: agriculture, cartography, surveillance, industrial monitoring, environment monitoring, wildlife monitoring, rescue missions, disaster recovery, emergency transport, military missions, LIDAR scanning





SC-200 UAV

- MTOW: 560 kg
- Empty weight: 290 kg
- Rotax 912 UL turbo engine
- Computer controlled prerotation system
- Dampened landing gear
- Fiberglass cabin
- Gyrotec carbon fiber rotor
- V_{cruise} : 100-120 km/h
- V_{NE} : 160 km/h
- Endurance: 5 hours
- Fuel tank: 50 liters
- Fuel consumption: 12-14 l/h
- Climb rate: 3.5-7 m/s
- Maximum take off distance: 120 m
- Autonomous mission execution



SC-200 UAV LR

- Long range model
- Endurance: 7 hours
- Fuel tank: 70 liters

SC-200 UAV FW

- Fixed wing for extra payload
- Wide range of use



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