



# NAUDI

National Association of  
Ukrainian Defense Industries

GYRO  PRACT



# SAPPHIRE 1

## GYROCOPTER

Gyrocopter is a rotary-winged aircraft with the use of a rotor-wing for creation of a lifting power, which rotates freely in auto-rotation mode. The Gyrocopter integrates the features of an aircraft and a helicopter and maintains flight operations from short-length and unprepared runways.

### APPLICATION:

- Inspection and control of territories
- Monitoring of agriculturally used areas
- Plants biodefense and low-altitude chemical works
- Monitoring of roads, communications, pipelines

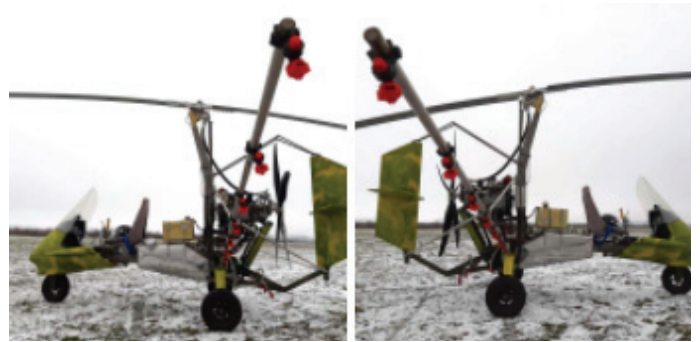
### MAIN ADVANTAGES AS COMPARED WITH AIRCRAFT AND HELICOPTERS:

- cultural treatment of hard-to-reach territory
- absence of mechanical damages of plants
- low cost
- not high maintenance costs
- allowable high speeds of surface wind (up to 20 m/s)
- high-speeds range (from 40 to 180 km/h)
- slight take-off run and practically zero run when landing

# CHARACTERISTICS

## Tactical and Technical Characteristics

Crew	1 pilot
Payload (with pilot)	up to 300 kg
Engine	UL390IS
Type of fuel	A-95/ MOGAS-97
Fuel consumption	211 / h
Flight duration	2*2,5 h
Flying range	350 km
Maximum flying speed (cruising)	160 (120) km/h
Takeoff run	80-150 m
Landing ground run	up to 20 m
Take off weight	600 kg



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