



# A REVOLUTIONAIRY UNMANNED AERIAL CARRIER







**SKYF** is a versatile platform that serves multiple purposes. The proprietary design is built around two types of engines:

- ► Gas-powered for lift and propulsion
  - Power: 220 hp
  - Fuel: regular automobile gasoline
- Small electric motors for control

The **SKYF** platform is assembled from readily available parts. The proprietary element is the platform design and the software behind the flight control system.

It has a foldable structure. Two **SKYF**s fit in a standard 20 ft cargo container.

#### **TECHNICAL SPECIFICATIONS**

- Vertical take-off and landing
- Payload capacity: up to 400 kg
- Maximal take-off weight: 650 kg
- Range: up to 350 km
- Cruising speed: 70 km/h
- GPS/GLONASS navigation to maintain pre-programmed flight information
- Artificial intelligence for decision-making in the absence of control signals and orientation
- Patented core aerodynamic principles

### COMPETITIVE ADVANTAGES

- Flight time 8 hours (with 50 kg payload)
- Stable in wind speeds up to 12 m/s (confirmed by tests in an aerodynamic pipe)
- Gas engine with direct connection to the main rotors; no need for expensive hybrid power electronics
- Versatile platform that serves multiple purposes
- Low operating costs (flight hour cost is 5-10 times less than for helicopters with similar loading)
- The first air cargo platform ideally suited for the business model Drone-As-A-Service (DaaS)
- Field tested with customers
- Seamless integration into client's ERP
- The first heavy-lifting drone applied for European Aviation Safety Agency (EASA) certificate, Russian and Canadian certificate.

# 🔅 SKYF

![](_page_1_Picture_1.jpeg)

## **SKYF** CAN BE MODIFIED TO MEET MULTIPLE COMMERCIAL APPLICATIONS (partial list)

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### AGRICULTURE

Application: spraying pesticides and fertilizer

**SKYF modification:** high payload, tank for chemicals preparation in the field, dusting equipment

**Benefits to the market:** night use, no pilot deaths, high precision confirmed mathematical model test, based on real model stands

![](_page_1_Picture_8.jpeg)

## **ON-SHORE/OFF-SHORE LOGISTICS**

**Application:** delivers 20-400 kg (45-882 lb) payload for oil and gas rigs, ships at sea, off-shore wind turbines repairs

SKYF modification: mid-high payload, short-long range, external load sling system

**Benefits to the market:** less expensive than helicopters, no pilot injury

![](_page_1_Picture_13.jpeg)

### SECURITY AND EMERGENCY RELIEF

**Application:** first response support for hurricanes, earthquakes, floodings. Fire fighting for high-rise buildings and forests

**SKYF modification:** mid-high payload, short-long range, external load sling system, industrial sonar

**Benefits to the market:** lower down-time cost, easy to set up logistics bridge, heights over 200 m (600 ft) can be reached, no pilot injury

![](_page_1_Picture_18.jpeg)

![](_page_1_Picture_19.jpeg)