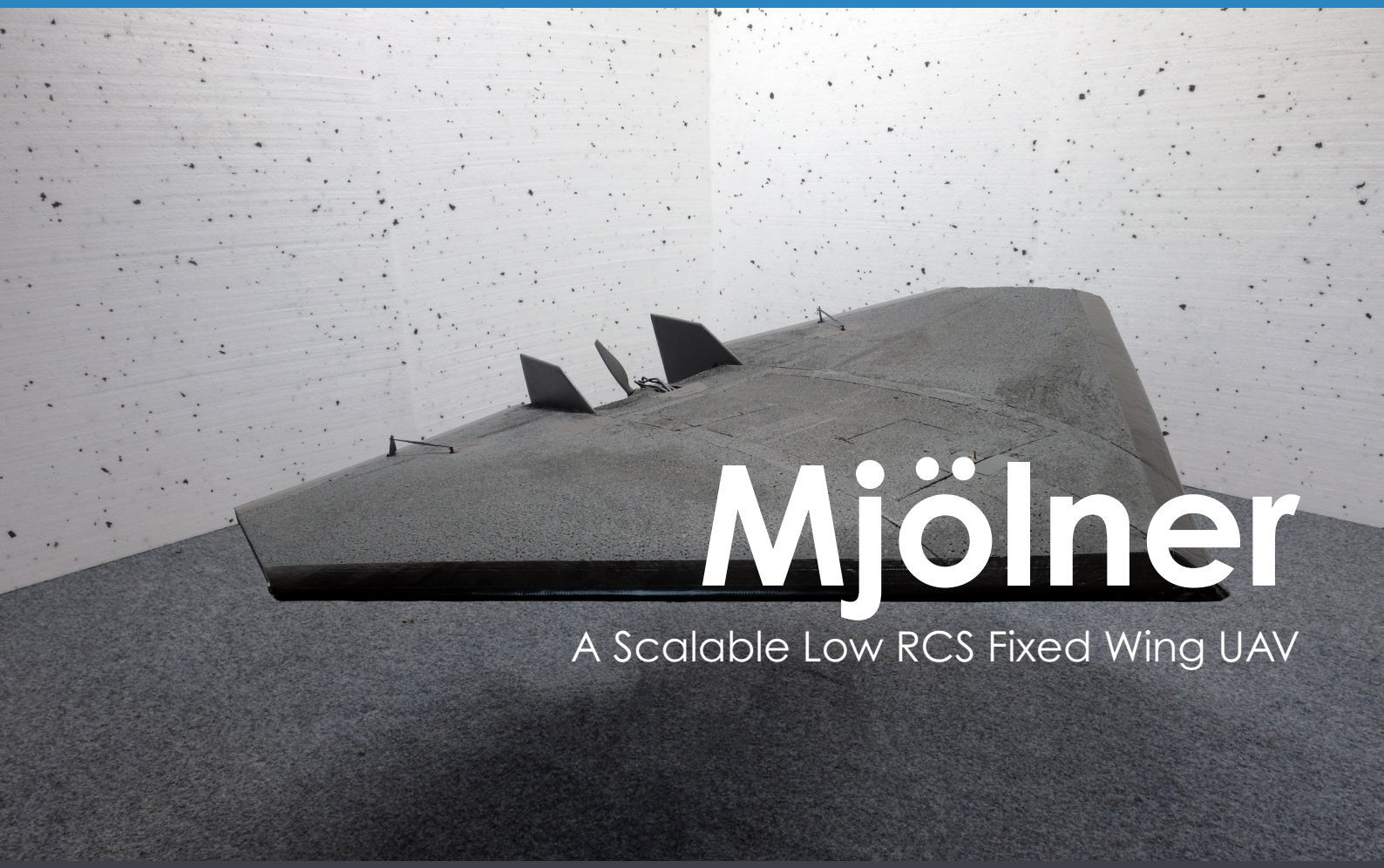
GREEN BIRD SYSTEMS



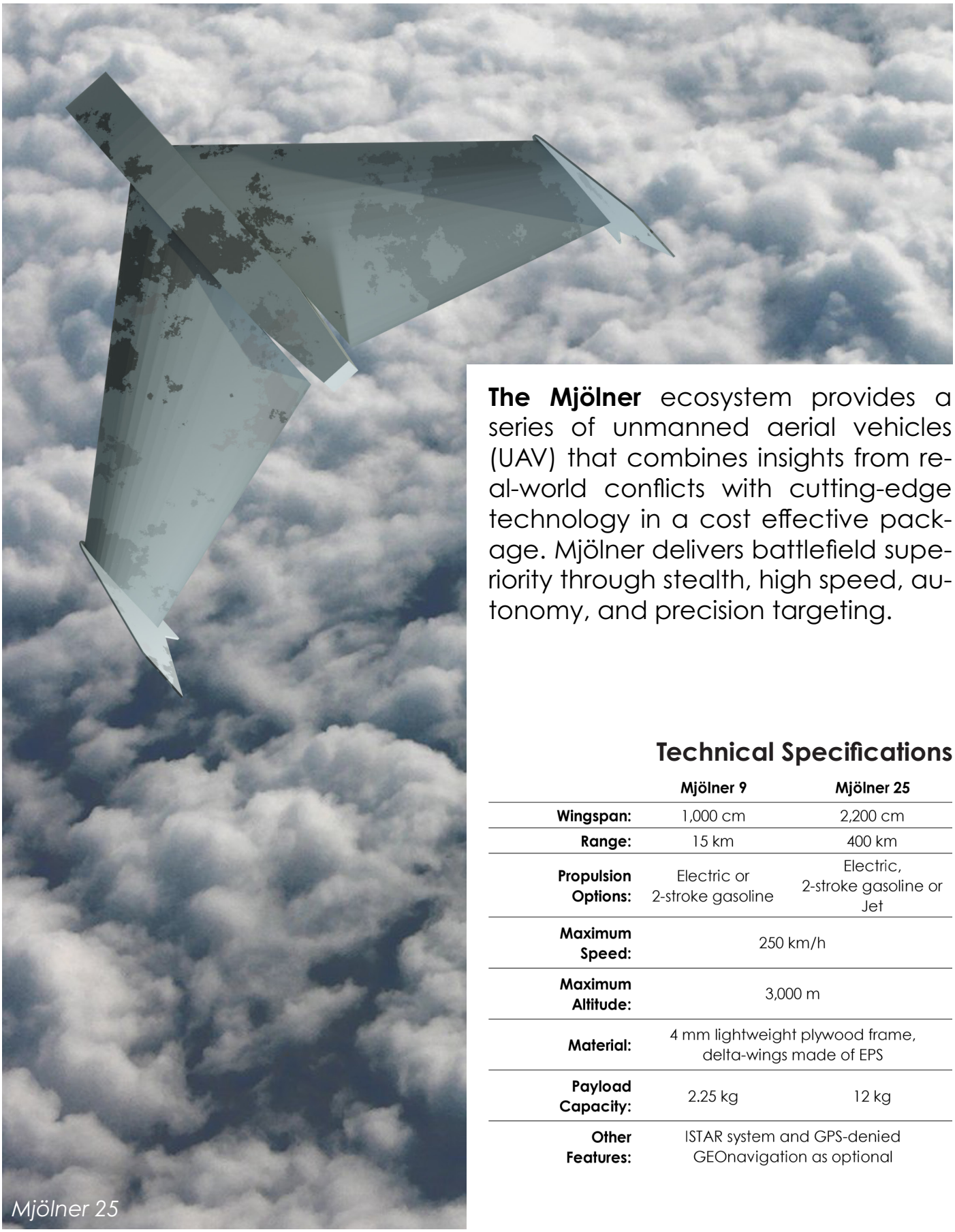
Mjölner

A Scalable Low RCS Fixed Wing UAV

Systems That Win

www.evolvedsystems.eu

An Introduction to Mjölner



Mjölner 25

The Mjölner ecosystem provides a series of unmanned aerial vehicles (UAV) that combines insights from real-world conflicts with cutting-edge technology in a cost effective package. Mjölner delivers battlefield superiority through stealth, high speed, autonomy, and precision targeting.

Technical Specifications

	Mjölner 9	Mjölner 25
Wingspan:	1,000 cm	2,200 cm
Range:	15 km	400 km
Propulsion Options:	Electric or 2-stroke gasoline	Electric, 2-stroke gasoline or Jet
Maximum Speed:	250 km/h	
Maximum Altitude:	3,000 m	
Material:	4 mm lightweight plywood frame, delta-wings made of EPS	
Payload Capacity:	2.25 kg	12 kg
Other Features:	ISTAR system and GPS-denied GEOnavigation as optional	

Design and Technology Overview

Design Details
Reinforced polystyrene is utilized for optimal weight-strength-cost ratio and survivability. Minimized radar signature to evade detection.

Modularity
Mjölner is modular and scalable with variants like Mjölner 9 and Mjölner 25 to meet specific operational demands.
Seamless integration into various systems for increased adaptability and interoperability.

Electronic Warfare
Electronic Attack using the TinyEAR neutralizing enemy radar and air defense systems. Electronic Support by TinyEAR full spectrum signal intercept, positioning, and recording.

Operational Flexibility
Advanced autonomous control algorithm for execution with minimal human intervention.

System Integration
Integrates advanced ISTAR system with drone swarm functionality and automatic geolocation navigation. Enhanced situational awareness and adaptability for superior flight capability in complex electronic warfare environments.

Technical Details
Real-time data collection and analysis enhance situational awareness and provide adaptive capability. Automatic geolocation navigation for precise positioning and motion control.

Control
Ground stations for decentralized control and monitoring of the entire ecosystem from secure locations. Ability to establish reliable data links with UAV and GCS via multiple communication methods.

Security and Survivability
Minimizes vulnerability to GPS interference, enabling operational effectiveness in electronic warfare scenarios.

Mjölner 25

Mjölner 9

Use Cases

Mjölner in Offensive Bombing Operations
Due to its high speed and accuracy, Mjölner 25 can execute offensive bombing operations with unparalleled precision. The modular design allows for customization of payloads suitable for various target types, including armored vehicles, enemy installations, and infrastructure. With its reduced radar signature, Mjölner 25 can inflitrate enemy airspace undetected.

Mjölner in SIGINT Operations
Equipped with the TinyEAR unit, Mjölner 9 is capable of conducting SIGINT operations. TinyEAR enables Mjölner 9 to intercept, analyze, and exploit enemy communications, providing valueable intelligence on enemy movements, intentions, and capabilities.

Mjölner in Reconnaissance Operations
Leveraging its high-speed capabilities and integrated ISTAR system, Mjölner 9 is optimal for reconnaissance missions across vast operational areas. Mjölner 9 can conduct real-time surveillance, target acquisition, and reconnaissance, providing critical situational awarness to ground troops.