V Space Unveils V-Speeder X: A New Era in Urban Mobility

Introducing The Future of Personal Aircraft and Urban Air Taxis

Kumi, Kyeongsangbuk Aug 11, 2024 (Issuewire.com) - ? Company Name: V Space

? Product Name: V-Speeder X

? Expected Launch Date: March 1, 2025

? YouTube Link: https://www.youtube.com/@Vspace_

◯ Product Overview

V-Speeder X is a two-seater autonomous Advanced Air Mobility (AAM) eVTOL (electric Vertical Take-Off and Landing) aircraft designed for urban and intercity transportation.

The aircraft features a top-mounted motor and propeller system, enhancing passenger safety during boarding and disembarking. Its vertical take-off and landing capabilities eliminate the need for a runway, and its compact size allows it to operate from smaller vertiports compared to competitors, making it ideal for urban environments.

The design of the V-Speeder X is inspired by the streamlined shape of a dolphin, minimizing air resistance and ensuring safe, efficient travel. The aircraft is constructed from carbon composite materials, making it lighter and providing higher payload capacity than international competitors.

Powered by a 120kW electric battery, the V-Speeder X offers a flight time of 30 minutes with quick turnaround times, facilitated by easily replaceable custom-made batteries.

◯ Functional Features

V Space specializes in high-performance, safety-focused battery systems. Recognizing the distinct differences between automotive and aviation requirements, V-Speeder X has been designed to meet the unique demands of various aircraft manufacturers. The aircraft is engineered with optimal weight distribution, a crucial factor in flight dynamics. At its core is a proprietary high-discharge battery module/pack, which provides unparalleled safety through integrated balancing and thermal control mechanisms.

Renowned for its unique battery design that ensures optimal balance, the V-Speeder X supports an impressive take-off payload of approximately 507 pounds (230 kg), surpassing industry standards. V Space's in-house development and manufacturing of the battery system allow for reduced overall production costs, a significant achievement given that battery costs dominate electric aircraft manufacturing expenses.

◯ Design Features

The aesthetics of V-Speeder X combine sleek, modern design with practical aerodynamic principles.

Its dolphin-inspired streamlined fuselage and rotor blade configuration not only create a futuristic vibe but also minimize wind resistance, ensuring safe flight. The batteries are carefully positioned to avoid disrupting the design, ensuring optimal weight distribution and performance.

These design choices allow for an impressive payload capacity of approximately 507 pounds (230 kg), significantly exceeding industry norms.

V Space's focus on integrating design with functionality makes the V-Speeder X not just a cutting-edge aircraft but also a model of energy-efficient flight, reflecting a forward-thinking approach to design and environmental considerations.

◯ Innovative Features

- Cost Innovation

The V-Speeder X offers a state-of-the-art mobility solution that is faster than cars and more affordable than high-end automobiles. This innovation redefines personal mobility, transforming the concept of personal time based on distance. By effectively reducing travel time over the same distances, the V-Speeder X has the potential to reshape future lifestyles. Furthermore, the aircraft’s reliance on electric charging, instead of traditional fuel, dramatically lowers operational costs, making it convenient for personal use.

- Functional Innovation

The V-Speeder X’s advanced and proven autonomous flight technology eliminates the need for a pilot, ensuring both cost efficiency and safe, reliable transportation. Its vertical take-off and landing capability allows it to operate without a runway, making it an innovative solution for urban transportation in dense city environments, such as building rooftops.

- Technological Originality

V Space’s unique battery design offers not only exceptional payload capacity but also integrates a range of safety features. In case of an emergency during flight, the independent Battery Management System (BMS) technology mitigates the risk of collisions, and explosion-proof battery technology ensures safety even under the most demanding conditions. The originality of this patented battery system safety technology is set to accelerate the advent of the electric aircraft era.

◯ Safety and Sustainability: V Space's Commitment to a Greener Future

Just as automobiles replaced horse-drawn carriages and expanded geographical distances within communities, the V-Speeder X promises to bring another revolution in transportation. Moreover, as the global movement to reduce carbon emissions intensifies, electric aircraft offer a groundbreaking solution by producing no direct CO2 emissions, compared to traditional engine-powered aircraft.

? About V Space

- Since its establishment, V Space has been a technology-intensive company focused on the comprehensive development and application of electric aircraft systems and battery systems. Leveraging its expertise in secondary battery systems, V Space has grown into a leading electric aircraft integrator. The company was the first in South Korea to successfully conduct demonstration flights of an AAM aircraft, developed domestically, for the Ministry of Land, Infrastructure, and Transport's Urban Air Mobility initiative.
- In a bid to rapidly expand commercial sales, V Space is concurrently developing both eVTOL and electric Conventional Take-Off and Landing (eCTOL) aircraft and is collaborating with TAF Corporation in the United States to obtain FAA certification for its aircraft after development.

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