

What does Evolito do?

Evolito offers a comprehensive, integrated electric propulsion solution. They specialize in axial flux motors, motor controller units, and electric battery solutions.

What are evolito battery solutions?

Evolito's battery solutions have been designed to allow for rapid development of an Expandable Energy Storage System. © 2024 Evolito Ltd. All Rights Reserved.

What makes evolito a good electric power system?

Modular architecture in Evolito's battery solutions allows the electric power system to be tailored for a range of electric and hybrid-electric aerospace projects without needing a tailor-made design. Axial Motors for Aerospace The YASA electric motor has an axial, dual-rotor design, differing from the more widely used radial single-rotor design.

Who makes evolito electric motors?

Evolito was spun out in 2021 by YASA, (the world-leading pioneer of automotive axial-flux electric motors acquired by Mercedes-Benz in July 2021), to exclusively commercialise next-generation electric motor technology for the rapidly-growing aerospace market.

Why did evolito acquire Electroflight?

Ajay Lukha, Chief Commercial Officer at Evolito, said, "We are very excited to complete the acquisition of Electroflight today. The combined capabilities will enable us to deliver flexible solutions for our customers, from best-in-class motor and controller subsystems to fully-integrated electric powertrains."

Where is evolito based?

During the past two years, Evolito has developed its new 40,000 ft²; (3,700 m²;) headquarters in Bicester, near Oxford, with manufacturing space that Harris said can scale up to increase production "at the right kind of pricing when the time is right."

Evolito at the Electric and Hybrid Aerospace Technology Symposium. Posted on September 1, 2023 - aerospace, latest news We are delighted to be attending & sponsoring the Electric & Hybrid Aerospace ...

Following the acquisition, Electroflight will become a wholly-owned subsidiary of Evolito and will focus on delivering next-generation battery technology to complement Evolito's motors and controllers.

These early batteries were far from today's sophisticated systems, but they marked the beginning of our energy storage journey. From Lead-Acid to Lithium-Ion: Battery Evolution . The 20th century witnessed

significant strides in battery technology. Single-cell lead-acid batteries powered early electrical systems, followed by rechargeable ...

Battery Systems & Management Evolito's compact motor controller units (MCUs), or inverters, have been designed for seamless integration with our Axial Flux electric motors. Designed to the highest safety standards, our MCU's achieve Development Assurance Level A (DAL A), featuring a dual lane design for physical channel segregation to ...

Gareth Morris Chief Operating Officer. Gareth has over 35 years" of engineering, programme and general management experience working for large tier 1 global aerospace companies. Most of his career has centred around the development and industrialisation of more-electric aircraft systems, and from 2012 to 2020 he led the creation of a specialist Centre of Excellence for electric motor ...

We are delighted to be attending & sponsoring the Electric & Hybrid Aerospace Technology Symposium in Bremen, Germany (27th & 28th September). This is the world's leading international conference and exhibition dedicated to ultra-low-emission aircraft technology and full-electric flight possibilities.

Evolito's high-power density, light-weight electric motors and controllers for electric aerospace applications. According to the company, its axial-flux motor technology requires up to 75% less iron, less copper and less permanent magnets than competing radial solutions, making it lighter and more environmentally-friendly.

Evolito Battery Systems Ltd is an active company incorporated on 28 June 2022 with the registered office located in . Evolito Battery Systems Ltd has been running for 1 year 7 months. There are currently 2 active directors according to the latest confirmation statement submitted on 27th June 2023.

The UK Civil Aviation Authority's approval of Evolito as a Design Organisation demonstrates that it is satisfied that Evolito has the technical expertise, facilities and capabilities to design safe and reliable products, and is able to comply with stringent requirements for certification.. Evolito is the first company in the UK to achieve this for electric propulsion systems.

This paper analyzes current and emerging technologies in battery management systems and their impact on the efficiency and sustainability of electric vehicles. It explores how advancements in this field contribute to enhanced battery performance, safety, and lifespan, playing a vital role in the broader objectives of sustainable mobility and transportation. By ...

Making more moves in the electric aviation arena, electric propulsion company Evolito has acquired aerospace battery company Electroflight. Perhaps the most interesting part of the news, though ...

Switzerland. Country The fields Country, Place and Radius are explained in the help ... Evolito Battery Systems Ltd. The data on this page is generated by a fully automated algorithm. It may have errors, and is provided on an "as is" basis with no guarantees of completeness, accuracy, usefulness or

timeliness. ...

The requirement is to achieve high levels of battery power and energy density, offset by the equally crucial demand to keep battery weight at a minimum; getting this balance right is crucial to enhance the overall performance of the systems whilst adhering to the regulations of safety and reliability.. Our capabilities span every aspect of electric aviation's battery requirements ...

Evolito is making all-electric flight a commercial reality with world-leading direct-drive electric propulsion solutions. ... Hangar 55 Switzerland Privately Held H55 is a company specializing in electric aviation technologies. The firm's expertise lies in certified electric propulsion, battery packs, and energy management solutions ...

Our full propulsion system of axial flux electric motors, motor controller units and battery systems are enabling electric flight to become a reality. ... Evolito was spun out in 2021 by YASA, (the world-leading pioneer of automotive axial-flux electric motors acquired by Mercedes-Benz in July 2021), to exclusively commercialise next-generation ...

Evolito Limited, a developer of axial-flux electric motors, power electronics and battery solutions for aerospace, has received Design Organisation Approval (DOA) from the ...

Evolito was spun out in 2021 by electric motor and controller pioneer YASA (now a wholly owned subsidiary of Mercedes-Benz) READ the latest Batteries News shaping the battery market. Electric Propulsion Company Evolito Acquires Aerospace Battery Company Electroflight to Create Full Powertrain Solutions Capability, OXFORD, England, July 5, 2022

Evolito, a privately-owned company designing and manufacturing world-leading electric motors and controllers for aerospace applications, has today announced the acquisition of the business and assets of Cheltenham-based aerospace battery solutions company Electroflight. Evolito supplies high-performance, low-weight axial-flux motors and controllers that are ...

Evolito's battery solutions have been designed to allow for rapid development of an Expandable Energy Storage System for a variety of fully electric and hybrid aerospace projects. Modular architecture allows the Electrical Power System ...

Evolito's axial flux motors are the smallest and lightest in their performance class. Our e-motors use low volumes of dense materials to yield higher torque and power densities than comparable motor architectures, particularly at speeds best suited to propulsion.. Evolito is enabling the aerospace industry to leave behind legacy radial flux motor technology that has been a barrier ...

Filing history for EVOLITO BATTERY SYSTEMS LTD (14200304) People for EVOLITO BATTERY SYSTEMS LTD (14200304) More for EVOLITO BATTERY SYSTEMS LTD (14200304) Registered office

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Evolito offer a new approach to electric propulsion, generation and energy storage. With revolutionary, lightweight, high torque dense and rate-manufactured axial-flux electric motors at its core, Evolito provides all key subsystems for an ...

Evolito offers a comprehensive, integrated electric propulsion solutions comprising of axial flux motors, motor controller units, and electric battery solutions.. Our holistic approach enables considered trade-offs between each component to achieve the most efficient, redundant and cost-effective solution for all aircraft architectures: eVTOLS, UAM, UAV, helicopters or General ...

Evolito, a designer and manufacturer of electric motors and controllers for aerospace applications, acquired the business and assets of Cheltenham-based aerospace battery solutions company Electroflight.. Evolito supplies high-performance, low-weight axial-flux motors and controllers that are smaller, lighter, and with a higher safety factor than other ...

Following the acquisition, Electroflight will become a wholly-owned subsidiary of Evolito and will focus on delivering next-generation battery technology to complement Evolito's unique motors...

Combined with the battery systems and high integrity motor control unit capabilities, Evolito creates propulsion solutions that at are optimised for the aircraft business case. Tendai Mutambirwa, Interim Group Director of Safety and Airspace Regulation at the UK Civil Aviation Authority, says: "It is important we enable companies like Evolito ...

Modular architecture in Evolito's battery solutions allows the electric power system to be tailored for a range of electric and hybrid-electric aerospace projects without ...

Evolito also sells compact motor controller units, or inverters, with a dual-lane design that complements the axial motors. Modular architecture in Evolito's battery solutions allows the electric power system to be tailored for a range of electric and hybrid-electric aerospace projects without needing a tailor-made design.

Evolito's ultra-high-performance, low-weight axial-flux motors and power electronics are smaller, lighter and more robust than any other competing technology, opening up a range of new opportunities for Electric Vertical Take-off and Landing (eVTOL), Fixed Wing and distributed electric propulsion applications such as Urban Air Mobility (UAM).

In July 2022, Evolito acquired and later integrated Electroflight batteries into the business to offer complete propulsion solutions that are fully optimised for future aircraft ...

Evolito provides the world's most advanced direct drive & in-direct drive electric propulsion solutions for Fixed-Wing and Electric Vertical Take-Off, and Landing (EvToL) applications.. The Urban Air Mobility

market alone is ...

Evolito, a privately-owned company designing and manufacturing world-leading electric motors and controllers for aerospace applications, has today announced the acquisition of the business and assets of Cheltenham ...

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