



**LIA AEROSPACE PRESENTS
ITS GREEN, NON-TOXIC AND NON-CRYOGENIC
BI-PROPELLANT PROPULSION SYSTEMS**

The aerospace company now offers two new propulsion systems for orbital change and maneuvering, targeting small satellites and spacecraft, at 20% of the market price.

London, United Kingdom, September 2022- LIA AEROSPACE, pioneer aerospace start-up developing sustainable, non-toxic, and bi-propellant propulsion systems for satellites and spacecraft, presents its two new products at Space Comm Expo in London: the BP100 and BP200.

Both products are designed for Geosynchronous Earth Orbit -GEO- circularization and GTO orbit transition. They can carry over 250kg of payload and use up to 230kg of green and storable propellants, based on hydrogen peroxide and on kerosene or an alcohol based fuel,

“Satellites are not necessarily meant to go to the launcher destination orbit. In-orbit maneuvering is frequently needed post launch to reach the desired orbital parameters. So, there’s an evident need of reliable and cost-effective propulsion for accessing the desired orbit. That’s where LIA comes in”, explains Dan Etenberg, CEO of the company.

The BP100 would use a maximum of 120kg of propellant and can carry approximately 100kg of payload into geo orbit. It can also serve as a kick stage, ideally as a third stage for small launchers. The company is displaying a prototype of the BP100, so that the industry can see first hand its technical characteristics and multiple functions. The BP200 can use a maximum of 230kg and can carry approximately 250kg of payload. Both propulsion systems share the same engine performance properties and include servo-actuated TVC, which makes them more flexible and reliable. They will be ready for commercialization in 2024.

Pushing the barriers of innovation, its highly talented team uses cutting-edge technology that allows them to produce propulsion systems in record time and costs. While the average production time in the industry is 24months, LIA can produce a propulsion system in 6 months and at a 20% price. “Our BP100 and BP200 propulsion systems are vivid proof of LIA Aerospace living to one of its main values: our team is extraordinary because we strive for the impossible” Etenberg concluded.

About LIA Aerospace

LIA Aerospace (Aerospace Research Laboratory) is a pioneer aerospace company developing sustainable, non-toxic, and bi-propellant propulsion systems for satellites and spacecraft. Dan Etenberg, Mechanical engineer with more than 20 years of experience in the development of rockets' propulsion systems, turbines and electronic system integration, funded the company in 2019 with the purpose of ensuring the sustainable scaling of new space and decarbonizing space economy. In 2021, LIA successfully launched its first test flight of its propulsion systems in its own reusable rocket, the Zonda 1.0, being the first rocket in the world to use biofuels. The company was selected to participate in a broad number of programmes including ScaleUp of Endeavor, the Global Entrepreneur Programme from the UK Department of International Trade, UdeSA Incubator from University of San Andrés and IncuBAte from the Government of the City of Buenos Aires and is currently being incubated in the ESA BIC UK in Harwell.

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London, United Kindom – September, 2022 – LIA Aerospace, a new responsive aerospace logistics company for micro and mini satellites, presented today its

The launch of the Zonda 1.0, a 3.8m long rocket, took place on January 23 at 11:26 AM in Magdalena, Buenos Aires, and reached the expected apogee of 3 km. This first test confirmed the proper functioning of all rocket systems (avionics, pressurization, launch tower, telemetry and propulsion), as well as the ground systems for remote loading propellants and remote pressurization, essential for a successful flight. It also helped to identify opportunities of improvement for its next rocket, expected to be of a larger scale, capable of reaching higher flight altitudes.

The Zonda 1.0, as well as the upcoming reusable rocket versions will have a lower environmental impact and will reduce the production time and costs of micro-launchers. "The propulsion system of the Zonda 1.0 uses hydrogen peroxide manufactured by LIA Aerospace as an oxidizing agent and biodiesel as fuel, generating 60% less carbon footprint than the fuels and propellants normally utilised", added Federico Brito, COO of the company.

The launch of the Zonda 1.0 completes the first of LIA Aerospace's four stage 2020-2024 work programme, designed to ensure the commercial launching of its rockets into orbit by 2024. The programme includes the development of new versions of rockets of greater size, payload capacity and flight height.

"This milestone confirms the strength, technical and financial capacity of the LIA Aerospace team, and is a critical step forward in achieving our main objective: to generate a more sustainable and closer relationship with space. In the last ten years hundreds of small satellite's companies have been created and today they are still not able to launch them into orbit. LIA Aerospace will offer the logistics solution that the aerospace market is needing, carrying out multiple launches of reliable, sustainable and low-cost rockets per year" said Dan Etenberg, CEO of the company.

Download launch images:

<https://photos.google.com/share/AF1QipOHLsGT82L22xXqMD2Ls2tqv5LdaBmxmIADUoRyriWEhYwf--vCvzgBew0MX4fezg?key=Ymdud2d5LVhYaU5xRVN2REcyM2dVdjVwSk5WMTV3>

About LIA Aerospace

LIA Aerospace (Aerospace Research Laboratory) is a responsive aerospace logistics company providing launching services for micro and mini satellites (between 75 and 250 kg). Founded in 2019 by Federico G. Brito and Dan Etenberg, both with more than 20 years of experience in the development of rockets' propulsion systems, turbines and electronic system integration. During 2020, the company was selected to participate in a broad number of programmes including ScaleUp of Endeavor, the Global Entrepreneur Programme from the UK Department of International Trade, UdeSA Incubator from University of San Andrés and IncuBAte from the Government of the City of Buenos Aires. The company will provide responsive micro and mini satellite launching services to low orbit with reusable rockets powered by biofuels, with the aim of generating a more sustainable and closer relationship between society and space.

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